Symantec™ Enterprise Security Architecture
Symantec Management Console User's Guide

SESA 2.1

symantec™

Symantec™ Enterprise Security Architecture Symantec Management Console User's Guide

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Introducing Symantec Enterprise Security Architecture

This chapter includes the following topics:

- About Symantec Enterprise Security Architecture

- About the Symantec management console

- Components of SESA

- What you can do with SESA

- Where to get more information about SESA

About Symantec Enterprise Security Architecture

Symantec Enterprise Security Architecture (SESA) integrates multiple Symantec Enterprise Security products and third-party products to provide flexible control of security within organizations. SESA is designed to meet the requirements of both large-sized and medium-sized enterprises. It provides a common management framework for native and integrated SESA security products to protect your IT infrastructure from malicious code, intrusions, and blended threats, and help to identify the vulnerabilities that the threats exploit.

SESA helps you increase your organization's security posture by simplifying the task of monitoring and managing security-related events and products. You can monitor and manage security-related events through the Symantec management console.

Figure 1-1 shows the basic relationships among the foundation that is provided by SESA, the Symantec management console, and the security products that SESA helps manage.

Figure 1-1   SESA foundation

The Symantec management console is the common user interface that provides manageable integration of security technologies (Symantec or otherwise), Symantec Security Services, and Symantec Security Response.

About the Symantec management console

Using the Symantec management console with the appropriate native and integrated SESA security products, you can do the following:

■   Centrally manage attacks, threats, and exposures by correlating security information from integrated Symantec and non-Symantec antivirus products, firewalls, intrusion detectors, incident response management software, and vulnerability scanning tools.

- Query, filter, and sort data to reduce the security-related events that you see through the Symantec management console, which allows you to focus on threats that require your attention. You can configure alert notifications in response to events, and generate, save, and print tabular and graphical reports of event status, based on filtered views that you have created.

- Change the security configurations of native and integrated SESA security products. Configuration options differ depending on the features of the integrated product.

- Configure and adjust SESA components to meet the infrastructure and performance needs of your organization.

- Group clients according to their security infrastructure and functional management needs to minimize the complexity of managing many security technologies across numerous clients and users. You can logically create groups of managed computers that are based on location, products installed, area of responsibility, or any combination of these. These organizational units help you better delegate event-management, product-configuration, and maintenance tasks.

- Create user roles and grant product-based or other types of permissions to further help with task delegation. SESA provides role-based administration, in which SESA users are granted permissions according to the roles to which they are assigned. Like organizational units, roles can be defined by product, location, or type of task.

The flexible, centralized approach and comprehensive event management capabilities of SESA give you the up-to-date information that you need to make informed decisions about the security of your network and related devices.

Components of SESA

The following components are the core of Symantec Enterprise Security Architecture:

- SESA Directory

- SESA DataStore

- SESA Manager

- SESA Agent (on the SESA Directory, SESA DataStore, and SESA Manager, as well as on the integrated security product)

- Symantec management console

- SESA Integration Packages, Symantec Event Managers, and Symantec Event Collectors, as required by a security product

SESA relies on security product SESA Agents, a SESA Directory, a SESA DataStore, and a SESA Manager to collect, store, process, and report security events to the Symantec management console, and to distribute configuration changes to SESA and SESA security products. In some cases, security products may also use a SESA Event Collector to collect security events for forwarding to SESA.

Figure 1-2 shows the relationships among the major SESA components. No SESA Event Collectors are shown.

Figure 1-2   Relationships among SESA components

SESA Directory

The SESA Directory uses the Lightweight Directory Access Protocol (LDAP) to store the configuration data that is required to manage native and integrated SESA security products and SESA services on the network.

The configuration data includes the following:

- Organizational units, which identify of all of the SESA-managed computers and components on the network and their locations in an organizational hierarchy.

- Configuration groups, which have managed computers as members.

- Data for each native and integrated SESA security product or SESA service that is installed on each SESA-managed computer (client or server).

- All authorized Symantec management console users on the network.

- The administrative roles to which Symantec management console users are assigned. Roles group users to assign console access control permissions.

- Configuration data that describes the settings for the software features of the SESA security product or products.

- Information that describes SESA itself.

You can view, add, and modify information through the Symantec management console, which then stores the data in the SESA Directory. You can define a number of configurations for each SESA-integrated product. Each product differs as to the type of configuration options that are offered. You can organize managed computers and users into different types of groups to help you delegate administrative tasks, and to better reflect the existing infrastructure of your organization's network. As new SESA security products are installed, SESA automatically adds the products and the computers on which they are installed to the SESA Directory.

Directory replicas

Using the same Symantec Installation Wizard that installs SESA Directories, you can also install one or more replica SESA Directories to add failover support. In this way, when a network connection fails on a SESA Directory computer, the associated SESA Manager can automatically switch communication to the replica SESA Directory.

Replica SESA Directories are read-only. While a replica SESA Directory is in use, you cannot make configuration changes to SESA components and management objects.

See the section on setting up SESA Agent-to-Manager failover support in the *Symantec Enterprise Security Architecture Implementation Guide* and

SESA DataStore

The SESA DataStore is a relational database that stores all event data that is generated by SESA and SESA products. In addition, the SESA DataStore stores alerts that are generated by alert configurations. SESA events and product events are predefined. You can create alert configurations or notifications based on one or more events, and set alerting thresholds.

Depending on the rate that security events are logged to the SESA DataStore, more than one SESA DataStore may be necessary for a SESA installation. During SESA installation, you can span a single SESA DataStore across multiple drives or move it to another drive, as available space requires. You can also use third-party software to resize and move SESA DataStores after the SESA installation, if necessary.

See "Configuring SESA Manager to SESA DataStore failover" on page 205.

SESA Manager

The SESA Manager centrally manages event processing for the SESA Agents, SESA DataStore, SESA Directory, and Symantec management console.

The SESA Manager contains a Web server and a servlet engine. Each aspect of the SESA Manager's functionality is implemented as a Java servlet. All SESA data passes through the Web server and the servlet engine.

Depending on resource demands and physical constraints such as locations, you can set up the SESA Manager in the following different configurations:

■ SESA Manager, SESA DataStore, and SESA Directory all on a single computer (not supported on Solaris platforms)

■ SESA Manager on one computer, SESA DataStore and SESA Directory on remote computers (distributed)

■ One or more SESA Managers that log event data to their own SESA DataStores as well as forward events and alerts to other SESA Managers (event and alert forwarding) but share a single SESA Directory

■ Multiple Managers that point to one SESA Directory and SESA DataStore

■ SESA DataStores at multiple sites that replicate to a single master SESA DataStore (replication)

See the section on supported installation configurations in the *Symantec Enterprise Security Architecture Implementation Guide*.

You can decide which configuration is most appropriate for your networking environment during installation planning.

SESA Agent

SESA Agents are Java applications that perform communication functions for the SESA components or security products on which they are installed.

Depending on where the SESA Agent is running, it handles the following types of communication tasks:

SESA Agent installed on a security product	When a SESA Agent is installed on a security product, it handles the communication between the product and the SESA Manager. The SESA Agent passes event data from the security product to the SESA Manager and receives product configuration data. One SESA Agent can support multiple security products that are installed on the same computer. (For a SESA Agent to support a product, the product must have been integrated with SESA).
	SESA Agents are installed and uninstalled with the security product. If the SESA Agent is not available with the security product, it is typically installed and uninstalled with a Symantec Event Manager, Symantec Event Collector, or with some other type of SESA integration method.
	See "SESA Integration Packages, Symantec Event Managers, and Symantec Event Collectors" on page 21.
SESA Agent installed on the SESA Manager (and if necessary, the SESA Directory and SESA DataStore)	In SESA 2.0, a SESA Agent is installed on the SESA Manager, which has a heartbeat provider that monitors the online and offline status of SESA services that are running on the SESA Agent. When security products integrate with SESA, they register certain critical services with the SESA Agent. You can further define critical services in the Symantec management console.
	The SESA Agent is installed and uninstalled with the SESA Manager. If the SESA Directory or the SESA DataStore is installed on different computers than the SESA Manager, you must use the SESA Installation Wizard to install an additional SESA Agent on each remote SESA Directory or SESA DataStore computer.
	The purpose of the SESA Agent on a remote SESA Directory or SESA DataStore is to obtain heartbeat status from these SESA components.
	See "SESA Agent heartbeat service" on page 20.

SESA Agent heartbeat service

The SESA Agent in SESA 2.0 comes with a heartbeat service that provides the SESA Manager with near real-time status of critical services. These critical services register with the SESA Agent. Administrators can view heartbeat status quickly and easily from the Symantec management console, and can also configure alerts that are based on heartbeat failure events.

Any time that a defined critical service misses a heartbeat (that is, becomes unavailable), SESA generates an event, which you can use for creating an alert, which can generate the proper alert or notification, such as an email or page.

You can view heartbeat status in the Symantec management console. An icon next to a computer denotes whether the critical services that are running on that computer are operational, have failed, or are not applicable. Without making queries, you can use the Systems view tab as a quick and comprehensive way to identify computers on which a service is unavailable. You can also query properties to see a more detailed status.

See "Monitoring computers" on page 134.

You can view the length of time that a service has been running or the length of time that a service has been unavailable. The view also displays the normal check-in interval of the computer system in question.

Event data handling

To pass event data, the SESA Agent sends events as follows:

■ Batch events are normal priority events that accumulate on the SESA Agent before the SESA Agent sends them. The SESA Agent sends them according to settings that you configure in the Symantec management console. Batch events provide efficient communication because each time that the SESA Agent connects to the SESA Manager, it must open a connection and authenticate itself to the SESA Manager.

■ Direct events have alert configurations associated with them and are sent immediately to the SESA Manager, which bypasses the SESA Agent event queue.

Symantec management console

The Symantec management console provides a simple, lightweight, Java-based, user-interface framework. The Symantec management console runs in a Web browser via a secure connection and retrieves events and configurations through the SESA Manager.

The Symantec management console provides you with flexible features such as detachable windows, preferences, stored views, and tabular and graphical views. It also offers extensive filtering capabilities, which let you filter any field in the data, including date, time, event, event family, SESA security product, and more.

The Symantec management console is data-driven. As SESA security products integrate into SESA, they extend the Symantec management console's functionality by inserting new event classes, views, tabs, and other product-specific data into it.

Figure 1-3 shows the Symantec management console with the All Events view displayed.

Figure 1-3 Events view tab displayed in the Symantec management console

SESA Integration Packages, Symantec Event Managers, and Symantec Event Collectors

After you install all of the SESA components, including any additional domains, subdomains, SESA Agents for heartbeat monitoring (as necessary), and replica or secondary SESA Directories, SESA DataStores, and SESA Managers for failover support, you can start integrating Symantec or third-party security products with SESA. SESA lets you integrate products through a robust framework called the SESA Integration Package (SIP). SIPs contains the product

schemas and other descriptions that let SESA recognize products and log events from them.

All products require you to run the SESA Integration Wizard to integrate with SESA. However, some products require that you install other integration components in addition to a product SIP.

Table 1-1 lists all of the types of integration components that SESA may require for a product integration.

For more information on the specific integration components that your product requires to integrate with SESA, see the product documentation.

Table 1-1 SESA integration components

Integration component	Description
SESA Integration Package (SIP)	All products that integrate with SESA have a SESA Integration Package (SIP), which is installed on the SESA Manager computer and deployed to the appropriate SESA administrative domains and SESA DataStores. The SIP configures the SESA DataStore to recognize and log events from the product. Each product provides a unique data package, which provides the product schema information for the SESA DataStore.
	You install SESA Integration Packages using the SESA Integration Wizard. In SESA 2.0, this wizard is accessible on the SESA Manager computer. The wizard prompts you for the product-specific data package. For most Symantec products, this data package is supplied with the product distribution media.
	Some products are Relays, Bridges, or have UI extensions. Relays and Bridges let SESA relay events from the SESA DataStore to another product. UI extensions allow the Symantec management console to include a unique graphical user interface and functionality for a product. Relays, Bridges, and UI extensions are collectively called Manager extensions. When a SIP contains a Manager extension, you are required to run an additional wizard in the Symantec management console to deploy the Manager extension.
	See the section on integrating security products with SESA in the *Symantec Enterprise Security Architecture Implementation Guide*.
	For instructions on deploying Manager extensions, see "Deploying and removing SESA Manager extensions" on page 106.
	Other products may use versions of the SESA Integration Wizard prior to SESA 2.0. In such cases, the wizards and SIPs for the product are provided with a Symantec Event Manager, Symantec Event Collector, or on other distribution media

Integration component	Description
SESA Agent	All products require a SESA Agent to integrate with SESA. The SESA Agent runs on the product (or client) computer, and provides communication services between the product and the SESA Manager.
	Depending on the product, the SESA Agent can be provided through any one of the following mechanisms:
	■ Agent Installer: Some products come with a separate software program to install the SESA Agent on the various platforms that are supported by the product.
	■ Product installation program: Some products have an option in their installation programs for installing the SESA Agent. Depending on the product, you can install the SESA Agent during product installation, or you can install the SESA Agent later.
	■ Manual installation: Some product versions that have shipped before other SESA integration methods became available require manual steps to install the SESA Agent.
	■ Symantec collectors (also called sensors): Some products require that additional software be installed on a product computer for the purpose of collecting and configuring event data from the product or product logs. If event collecting software is required, a Symantec Collector will also typically install the SESA Agent. The SESA Agent passes the collected events to the SESA Manager for insertion into the SESA DataStore. Symantec collectors are often packaged with Symantec Event Managers or Symantec Event Collectors.
Symantec Event Managers	Symantec Event Managers provide a suite of SESA integration components for the Symantec products that they support. Symantec Event Managers always provide versions of SIPs earlier than 2.0. And, depending on the supported product, they may provide a Symantec collector, an Agent Installer, or instructions for installing the SESA Agent manually.
Symantec Event Collectors	Symantec Event Collectors provide the Symantec collectors (also called sensors), SESA Agents, and SESA Integration Packages that are required for a third-party or non-Symantec product to integrate with SESA.
	Each Symantec Event Collector supports a particular third-party product or suite of products.

Symantec Event Mangers and Symantec Event Collectors let organizations with large SESA installations immediately leverage the benefits of SESA even when their supported security products are versions that were released before SESA.

What you can do with SESA

SESA 2.0 lets you organize resources on your network to more easily manage and view them as objects in graphical and tabular formats. You can change configurations on native and integrated SESA security products as well as on the SESA services that manage these products. You can create and maintain SESA users (who perform SESA administrative tasks), and assign them to roles for the purpose of grouping like-access permissions.

Organizational units

Organizational units let you group computers into logical collections. You can group computers by location, SESA security product installed, class of user, or class of computer. Through the Symantec management console, you can create, modify, and delete organizational units. This flexibility lets you design your SESA environment to better reflect how your organization is handling or plans to handle its security-management needs across the network.

For example, one organization may organize its network by business functions, such as marketing, operations, and accounts payable, while another organization may organize by IT functions. Still others may structure their networks by product groups, such as antivirus and firewall, or by location, for example, regions, cities, or building floors. Many organizations need to organize their networks by a combination of some or all of these criteria. SESA is flexible enough to allow whatever hierarchical grouping is necessary to reflect your organization's IT structure.

While the main purpose of organizational units is to group computers with common configurations, you can also use organizational units to change configurations on native and integrated SESA security products. To override a particular configuration, you use configuration groups. Configuration groups let you create exceptions to the computer configurations in organizational units.

See "Configuration groups" on page 25.

Organizational unit hierarchy

Nested objects in an organizational unit hierarchy can inherit the configuration properties of their parent units, but only if they do not already have configurations associated with them. You can associate configurations with organizational units at any level in the hierarchy.

If a computer does not find a configuration at its level, it uses the configuration at the next level up the tree. At the same time, you can distribute a configuration to individual computers within an organizational unit without affecting the other computers in the unit. This type of property inheritance reduces repetitive

configuration tasks, which makes the maintenance of native and integrated SESA security product configurations more efficient.

Default organizational units

The organizational units in Table 1-2 already exist when you access the Symantec management console for the first time.

Table 1-2   Default organizational units

Organizational unit	Description
Default	The Default organizational unit contains computers on which SESA Agents are installed, but have not yet been assigned to other organizational units. When you create organizational units, you move computers from the Default unit to the newly created unit as necessary.
	Some native or integrated SESA security products may prompt you to specify their organizational unit during the product installation process.
Managers	The Managers organizational unit is a special unit that is used to optionally contain computers on which SESA Managers are installed. You decide during the SESA Manager installation process whether you want the SESA Manager to initially appear in the Manager or in the Default organizational unit. You can later move a SESA Manager to another organizational unit.

Configuration groups

Configuration groups let you create exceptions to the configurations that you have created for computers in organizational units. You may have cases in which a small number of computers have configurations that would match those of a larger group of computers, but for one or two exceptions. You can still include the near-match computers in the same organizational unit as the larger group of computers, and then handle the differences by creating a configuration group for the near matches that specify the exceptions. Any configurations for computers in configuration groups override the configurations of those same computers in organizational units. Therefore, configuration groups provide a convenient way to track exceptions without you having to create a new organizational unit for every computer configuration that differs slightly from existing configurations.

For example, you may have three computers in three different organizational units that require the same slight modification to an antivirus configuration. Rather than make three separate configuration changes for each computer, you can create one configuration group for the three computers and define a configuration once.

Computers are members of configuration groups, but are contained in organizational units. Configuration groups take precedence over organizational units. Organizational units represent the actual SESA-managed computers on the network, while configuration groups represent exceptions to organizational unit configurations.

See "Organizational units" on page 24.

A computer can only be assigned to one configuration group at a time. If you reassign a computer to another configuration group, SESA automatically removes the computer from its original configuration group.

Unlike organizational units, configuration groups do not nest hierarchically. Each group receives only the configurations that you have explicitly assigned to it.

Product configuration distribution

Integrating products are installed with predefined categories of product configuration options, which are called software features. The values that have been set for these options are what SESA detects as the various configurations for the computers in organizational units. SESA lets you create, modify, or delete these configurations (including configurations for SESA itself).

SESA allows you to have multiple configurations for each native or integrated SESA product so that you can apply a specific configuration to a subset of computers that are running the product. For example, you may want to change an existing configuration for a firewall product by opening a port to grant limited access. You can make this change once in the Symantec management console and then have SESA distribute the change to the necessary antivirus computers.

Note: The timing of configuration distribution varies depending on the amount of traffic on the SESA Manager

Products acquire new configurations in the following ways:

■ An administrator with product management permissions initiates the distribution of the configuration. A message is sent to computers, telling them to contact the SESA Manager for configurations.
An administrator can control how to send this message so that the SESA Manager is not overwhelmed by requests for new configurations.

■ The SESA Agent that is installed with a product, or on a SESA Manager, polls the SESA Manager to find out if there are new configurations. This polling can take place at a configured interval, or when the computer on which the SESA Agent is installed is restarted.

In both of these cases, the following dialog takes place:

■ The product, by way of the SESA Agent, asks the SESA Manager what configurations that it needs.

■ SESA performs a hierarchical check to find the right configuration.

■ The SESA Agent pulls the configuration to the computer.

Figure 1-4 illustrates the hierarchy of precedence that SESA uses to determine which configuration to distribute. The SESA Agent queries the SESA Manager for specific actions.

Figure 1-4   Configuration distribution hierarchy

Do configurations exist that are:

Multiple administrative domains

Multiple administrative domains facilitate the management of your network resources. An administrative domain is a structural container in the SESA Directory that you use to organize a hierarchy of users, organizational units, computer systems, configuration groups, and managed products and product configurations.

By default, at least one administrative domain is installed when you install a SESA Manager. You can install additional domains; however, each domain must have at least one SESA Manager associated with it.

For example, if your company is large, with sites in multiple regions, you may need to have a single view of management information, yet have the option to delegate administrative authority, physically separate security data, or have greater flexibility in how users, computers, and policies are organized. You may have similar needs if you are a managed service provider that manages multiple independent companies, as well as Internet service providers.

To meet these needs, you can install multiple administrative domains, for example by country, by region, or by company. Each domain that you install provides an additional set of instances of the basic SESA directory tree. You can organize the domains that you install as peers on different servers, or in a hierarchy on a single server, depending on your corporate needs.

You can create additional domains when you install your SESA components.

See the section on installing additional SESA domains in the *Symantec Enterprise Security Architecture Implementation Guide*.

SESA users

SESA maintains a list of SESA users, or people who have SESA management or non-management roles. SESA installs with a default Administrator user, which is defined during installation when the SESA Installer asks for a user name and password for the SESA Directory Domain Administrator. The default Administrator has access rights to the entire SESA administrative domain.

A SESA domain is an autonomous group of objects for which administrative authority is granted through roles. Objects include computers, users, databases, application configurations, and application service locations. SESA 2.0 lets administrators install multiple administrative domains that contain all SESA-managed objects and to which the default Administrator user is granted administrative authority.

When SESA users are created, they have no access rights to SESA domains. Users are granted permissions to objects in the SESA environment through role assignment. When the SESA installer creates the default Administrator user, it assigns the default role of SESA domain administrator to that user. This role carries the necessary permissions for the default Administrator user to access all objects in the SESA domain. When you create a user, you assign a role that grants that user access rights to a set of objects in the domain.

You can add SESA users using a wizard in the Symantec management console.

Roles in SESA

Roles are a way to create sets of permissions to the various management objects in the Symantec management console. A Symantec management console user can have one or more roles. The logon identity of Symantec management console users determines the role assignment during an administrative session. In SESA 2.0, roles provide more detailed permission levels for almost every management object in the Symantec management console.

The first time that you install a SESA Directory, or when you create new domains using the SESA installer, a domain administrator role for the domain is created. You cannot modify or delete this role, but you can add users to it. Users who are members of this role have full access (permissions) to all objects that exist in the same domain as the role. When you do not want to give users such complete access, you can create more limited roles.

Limited roles

Roles that you create in the Symantec management console apply only to the domain in which they are created, and only to one product. If a user needs access to one product in one domain, you (as a member of the domain administrator role) can make the user a member of a single role. For example, you can limit a user's access by making the user a member of a single role that allows only the viewing of firewall events and management of firewall configurations.

However, if users need access to multiple products over several domains, you can make them members of more than one role. For example, a user may be a member of a firewall event viewing role in one domain and a member of an antivirus management role in another domain. This allows the user to view events from a firewall product in one domain, and manage the configuration of an antivirus product in another domain.

Permissions

Another way that roles control access to objects is through permissions. Permissions specify the rights (read, write, add, delete, and search) that members of a role have over SESA objects. Permissions are automatically added to a role when it is created. You can remove or modify permissions for specific objects by editing the role's properties.

Permissions, like roles, can only be modified by members of the Domain Administrator role.

See "Creating a role" on page 70 and "Working with permissions" on page 156.

Failover support

SESA 2.0 now lets you configure the Symantec management console to set up one or more alternate servers for SESA components should any SESA component server become unavailable. The failover feature lets you preconfigure the SESA Agent to connect to alternate SESA Managers when the primary SESA Manager is unavailable. You can also preconfigure the SESA Manager to connect to alternate, or replica, SESA DataStores or SESA Directories if the primary SESA DataStore or SESA Directory becomes unavailable.

Administrators can configure the following two types of failover schemes:

■ Automatic failover scheme: Selects an alternate server from a predefined, user-ordered list of SESA component servers in the Symantec management console. No administrator intervention takes place, although administrators sequence failover servers in the Symantec management console.
For failover SESA Directories, the particular failover server is chosen programatically, without user configuration. SESA selects the alternate SESA Directory server with the primary domain name suffix that most closely matches the primary domain name suffix of the failed server.

■ Manual failover scheme: Requires the administrator to select the SESA component server manually at failover time.

SESA lets administrators configure the number of connection attempts before a primary SESA component server fails over to an alternate server. In addition, administrators can configure the time interval between connection attempts, both when a server fails over and when it fails back to the primary server.

See the section on setting up failover support in the *Symantec Enterprise Security Architecture Implementation Guide*.

Security technology in SESA

SESA installs with anonymous Secure Sockets Layer (SSL) technology to encrypt data and secure communications between the SESA Manager and any of the following:

■ SESA Agents over HTTPS

■ SESA Directory over LDAPS

■ Symantec management console over HTTPS

■ Other SESA Managers over HTTPS

The default SSL that installs with SESA lets the SESA Manager dynamically create self-signed certificates to validate the integrity of, and encrypt data passing between, these components. Anonymous SSL does not provide authentication. However, SESA lets you convert to authenticated SSL, which authenticates connections among SESA Managers and SESA Agents, SESA Directories, Symantec management consoles, and other SESA Managers.

SESA Managers always communicate through HTTPS to pass data to other SESA Managers, and among its internal components. For example, a single SESA Manager can communicate internally between its servlets (such as an Event Logger to an Alert Logger servlet) over HTTPS. In addition, a SESA Manager can communicate with another SESA Manager using HTTPS, as is done in an event forwarding configuration.

Communications between the SESA Manager and SESA DataStore use local TCP/IP communication when the SESA DataStore and SESA Manager reside on the same computer. When they are installed on separate computers, you can secure communication between them by setting up a secure tunnel, such as a virtual private network (VPN).

Transport Layer Security (TLS) is also supported on Sun SPARC Solaris installations.

See the section on changing your security configuration in the *Symantec Enterprise Security Architecture Implementation Guide.*

LiveUpdate technology

LiveUpdate is the Symantec technology that lets installed Symantec products connect to a server automatically for program updates. The connection is made through an HTTP or FTP site. LiveUpdate is installed on the SESA Manager computer when the SESA Installer program installs the SESA Manager.

Native SESA security products install the SESA Agent as part of their product installations. Security products that require integration with SESA use an Event

Manager, Event Collector, Relay, or Bridge to install the SESA Agent. Regardless of how the SESA Agent is installed, you can configure it to perform a LiveUpdate operation in the Symantec management console.

In addition, SESA security products can receive product updates from Symantec through Java LiveUpdate. However, neither the SESA Agent nor SESA Manager Java LiveUpdate sessions are involved in updating native or non-native SESA security products.

Note: Some SESA third-party components cannot receive product updates through LiveUpdate.

Event exclusion, logging and viewing

SESA 2.0 lets you select which types of events to exclude from insertion into the SESA DataStore. An integrated SESA security product forwards events to the SESA Agent, which manages and queues the events and sends them to a SESA Manager. The SESA Manager then logs the events in the SESA DataStore.

The only way to exclude events from being logged to the SESA DataStore is to define exclusion event filters. One of the filter elements that you can define is the event type.

Event viewing is provided through Symantec management console views and specific product console view extensions. For example, administrators can query, filter, and sort events to quickly find computers that are not protected, are out-of-date, or have high-severity events occurring on them.

Alerts and alert notifications

SESA lets you create alert notifications for events that are collected on the SESA Manager. Notifications can be sent via pagers, SNMP traps, email, and OS Event Logs. You can define the notification recipients, day and time ranges when specific recipients are notified, and custom data to accompany the notification messages. Each notification recipient can have one or more preferred ways of receiving notification. You select the user to notify for one or more alerts.

You may or may not associate an alert notification with alerts. You can configure alerts to accumulate events until a certain number are received or within a time interval. When a threshold is met, an alert is generated. After the alert is generated, any selected notifications for the alert are sent to a pager, email, SNMP trap, or OS Event Log, depending on the alert settings. By applying thresholds, you can use alerts to consolidate the many events that native and non-native security products generate.

See the section on how SESA generates alerts in the *Symantec Enterprise Security Architecture Implementation Guide.*

For information on configuring alert notifications, see "Specifying alert notification methods" on page 309.

Centralized reporting

SESA provides centralized reporting capabilities, including graphical reports. SESA provides some common reports, while native and integrated SESA security products have additional predefined reports. You can also create custom reports using a Custom Report Wizard.

In SESA 2.0, the Custom Report Wizard provides options for multiple filters, and includes a complete selection of operators (for example, =, >, and <). It also includes AND/OR operations.

You can use reports to present statistics, recent activity, outbreak and intrusion conditions, and more. SESA provides a variety of report formats such as trend graphs, pie charts, stacked bar charts, and tables, all of which let you drill down to the particular data that you need. You can print current Symantec management console views of events and alerts as reports, or save the views as reports and export them to other formats.

Where to get more information about SESA

You can obtain information about SESA from the following documents:

- *Symantec Enterprise Security Architecture Implementation Guide*
- *Symantec Enterprise Security Architecture 2.0 Migration Guide*
- *SESA 2.0 Getting Started card*

For more information on SESA, a SESA knowledge base is available on the Symantec Technical Support Web site at:

www.symantec.com/techsupp/enterprise

The knowledge base link is the first one under Technical Support. You can find the Symantec Enterprise Security Architecture knowledge base listed under Security Management.

To obtain an updated version of the SESA Implementation Guide and other SESA guides, visit the Symantec Public FTP site at any of the following URLs:

- ftp://ftp.symantec.com/public/english_us_canada/doc
- ftp://ftp.symantec.com/english_us_canada/products/sesa/manuals

Introducing the Symantec management console

This chapter includes the following topics:

- Accessing the Symantec management console

- Introducing the user interface

- Using the console view tabs

- Using menus

- Using the toolbar

- Navigating using the left pane

- Changing the appearance of the right pane

- Using SESA wizards

- Using Find dialog boxes

Accessing the Symantec management console

The Symantec management console connects you to the SESA Manager. It is displayed in either a Microsoft Internet Explorer or Netscape browser window.

Before you log on, make sure your system meetings the logon requirements.

Then follow the logon procedure.

Log on prerequisites

To run the Symantec management console, your system must meet the following requirements:

■ Internet Explorer 5.5 or later, with SP2; Netscape 7.

■ 256-color video adapter.

■ Scripting, and Java VM must be enabled in the Internet browser.

■ Java Runtime Environment (JRE) 1.3.1_02 or later (1.4.2 for Netscape 7 on Solaris)

Java Runtime Environment considerations

The Symantec management console runs as a Java-based user interface in your browser. The version of the Java Runtime Environment (JRE) that you need depends on your browser type, operating system, and language support requirements.

If you do not have the correct JRE installed for your browser and operating system combination, SESA prompts you to download JRE 1.3.2_03 from Sun, and automatically runs the installation. You may prefer to link directly to the Sun Web site to install a later version, or a version that supports your language requirements.

Determine your Java Runtime Environment (JRE) requirements based on the following:

■ Microsoft Internet Explorer
JRE 1.3.1_02 or later
If you are not running JRE 1.3.1_02 or later, when you log on to the Symantec management console, you are prompted to download and install it from the Sun Web site.

■ Netscape
In you are running Netscape 7 on Solaris, you must have JRE 1.4.2.
If you are running Netscape/Mozilla on any operating system, and you are not running JRE 1.3 or later, when you log on to the Symantec management console, you are prompted to download and install it from the Sun Web site. If you have JRE 1.3 or later, you are not prompted to upgrade; however, you should install at least JRE 1.3.1_02 for SESA to run properly.

■ Additional JRE version recommendations:
For a security fix that existed in versions of JRE that are earlier than
1.3.1_02, you should install JRE 1.3.1_09.
To avoid warnings about expired certificate authority for Verisign, you
should install JRE 1.3.1_10.
If you are running the latest JRE (version 1.4.2), you should be aware that
SESA has not been tested in this environment.

Sun Microsystems download URLs:

■ To download JRE 1.3.1_02 from Sun's Web site, go to the following URL:
http://java.sun.com/products/archive/j2se/1.3.1_02/jre/index.html

■ To download the latest JRE from Sun's Web site, go to the following URL:
http://java.sun.com/j2se/1.3/download.html

Language support:

■ If you log on to SESA from the United States and follow the link provided by
SESA, the version of the JRE that is downloaded is the United States version,
which does not support language variants.

■ For maximum language compatibility, you should download directly from
the following SUN site and select the international version:
http://java.sun.com/products/archive/j2se/1.3.1_02/jre/index.html

Logging on to the Symantec management console

You can log on to the Symantec management console either from a remote
machine or from the SESA Manager itself.

By default, your connection is secured using Secure Socket Layer (SSL).

To log on to the Symantec management console

1 In the Symantec management console, do one of the following:

■ To connect from a remote machine:
Open a Microsoft Internet Explorer or a Netscape browser window.
In the Address text box, type the URL for the SESA Manager. For
example:
https://yourSESAManager/sesa/ssmc
Press **Enter**.

■ To connect from the SESA Manager:
Log on to the account used to install the SESA Manager.
From the Start menu, choose **Programs** > **Symantec Enterprise
Security** > **Symantec management console**.

2   One or both of the following security messages are displayed. Take the action required for the messages that appear on your screen.

■   If you have not previously disabled it, a security alert message warns you that you are about to view pages over a secure connection. To disable future displays of this warning, click the check box, and then click **OK**.

■   A security alert message concerning your site's security certificate appears. To use the certificate without installing it, click **Yes**. To install the certificate, click **View Certificate** and use the dialog box that appears.
If you do not want this message to appear in the future, upgrade to self-signed SSL certificates, or, as recommended by Symantec, to fully authenticated CA-signed SSL certificates. These upgrade procedures are described in the *Symantec Enterprise Security Architecture Implementation Guide.*

3   In the Logon window, do the following:

Name	Type your user name.
Password	Type your password
Domain	Do one of the following: ■ If only one domain exists, leave the Domain text box blank. This logs you on to the domain in which the SESA Manager is defined. ■ If there are multiple domains, type the name of the domain in which you are defined as a user in either dotted or full notation. An example of dotted notation is: Symantec.SES An example of full notation is: dc=Symantec,dc=SES **Note:** The super-user SESAdmin has access to every SESA administrative domain on every SESA Manager computer. If you are logging on as this user, leave the Domain text box blank.

4   Click **Logon**.

5   If you are asked whether you want to view both secure and nonsecure items, click **Yes**.
To suppress this message for future log ons, you can set your browser to recognize mixed content.
See "Configuring browsers to display secure and non-secure content" on page 39.

After the required Java runtime files are downloaded to your system, the Symantec management console appears in the browser window.

Note: The language that is displayed in the Symantec management console depends on the language preference defined for your user account and the language of the SESA Manager to which you are logging on.

See "Preferred language behavior in the Symantec management console" on page 92.

Configuring browsers to display secure and non-secure content

In the Symantec management console, some pages contain both secure and non-secure content. A warning message is displayed if your browser is not set up to display mixed content. You can suppress the warning by modifying your browser configuration.

To configure browsers to display secure and non-secure content

You can change your browser settings so that mixed content can be displayed. The procedures are different depending on your browser.

To configure mixed settings in Internet Explorer

1   In the Internet Explorer browser window, on the Tools menu, click Internet Options.

2   On the Security tab, click **Custom Level**.

3   In the Miscellaneous group, under Display Mixed Content, select **Enable**.

To configure mixed settings in Netscape

1   In the Netscape browser window, on the Edit menu, click Preferences.

2   In the Privacy & Security category, click **SSL**.

3   In the SSL Warnings group, uncheck **Viewing a page with an Encrypted/unencrypted mix**.

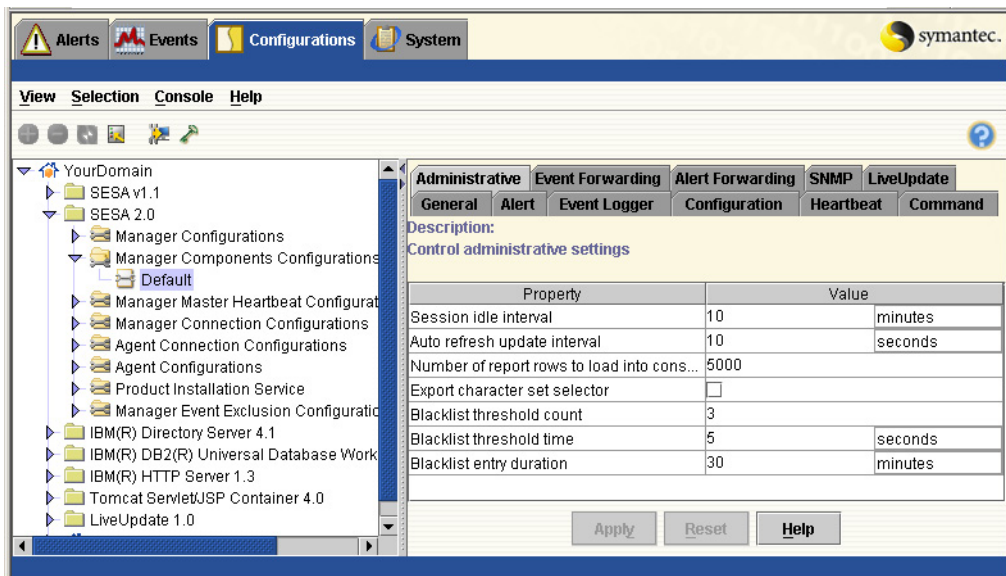## Preventing the Symantec management console from timing out

For security reasons, the Symantec management console is designed to time out when it is inactive. The initial time out setting is 10 minutes.

The Symantec management console is inactive when your actions do not cause the console to contact the SESA Manager. For example, if you work in a dialog box without saving your changes, the console is inactive. If the time you spend working exceeds the time out setting, you are logged out of the console.

However, if you display a report, the Symantec management console contacts the SESA Manager to download event data from the SESA DataStore. Similarly, if you display a properties dialog, the console contacts the SESA Manager to download the properties from the SESA Directory. If you are performing these actions the console will not time out because the console is active.

To prevent the Symantec management console from timing out

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Components Configurations**.

2   Select the Default configuration.

3   In the right pane, on the Administrative tab, next to Session idle interval, to increase the session idle interval, type a higher value.

4   Click **Apply**.

5   To make the change take place immediately, you distribute it to the SESA
Manager. Do the following:

- On the Selection menu, click **Distribute**.

- When you are asked if you are sure you want to distribute the
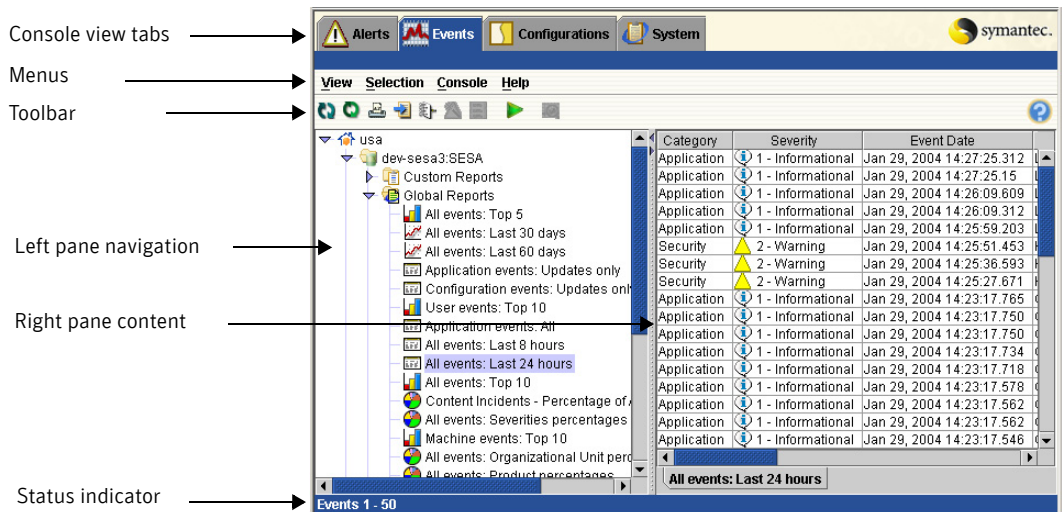configuration, click **Yes**.

Introducing the user interface

The Symantec management console user interface consists of the following
features:

- Console view tabs

- Menus

- A toolbar

- Left pane navigation

- Right pane content

- Status indicator

Figure 2-1 shows the main features of the Symantec management console
window.

Figure 2-1   Symantec management console window

Using the console view tabs

You choose the console view that you want using the tabs at the top of the Symantec management console window.

The tabs that are available to you depend on the roles (permissions) that were assigned to you as a Symantec management console user, and the security products that you are managing.

Table 2-1 describes each console view tab.

Table 2-1   Console view tabs

Console view tab	Description
Alerts	Displays reports of alerts.
	On the Alerts view tab, you can do the following:
	■ Create alert configurations. ■ Monitor alert reports and create custom reports. ■ Display alert details. ■ Print and export alert data.
Events	Displays various reports based on events that have been logged by your security products and the SESA Manager components.
	On the Events view tab, you can do the following:
	■ View reports and create custom reports. ■ Create alert configurations based on events. ■ Display event details. ■ Print and export event data.
Configurations	Displays your security product configurations.
	On the Configurations view tab, you can do the following:
	■ Create new product software feature configurations. ■ Modify configurations. ■ Associate configurations with computers, organizational units, and configuration groups. ■ Distribute configurations.

Console view tab	Description
System	Displays your security infrastructure. On the System view tab, you can do the following: ■ Create and manage roles, users, organizational units, computers, configuration groups, SESA DataStores, SESA Directories, and notification services. ■ Associate configurations with organizational units, computers, and configuration groups. ■ Distribute configurations.

Depending on the security products that you have installed, you may see additional console view tabs. Their uses are explained in your security product documentation.

Using menus

Each console view tab provides four menus, as described in Table 2-2.

Table 2-2   Symantec management console menus

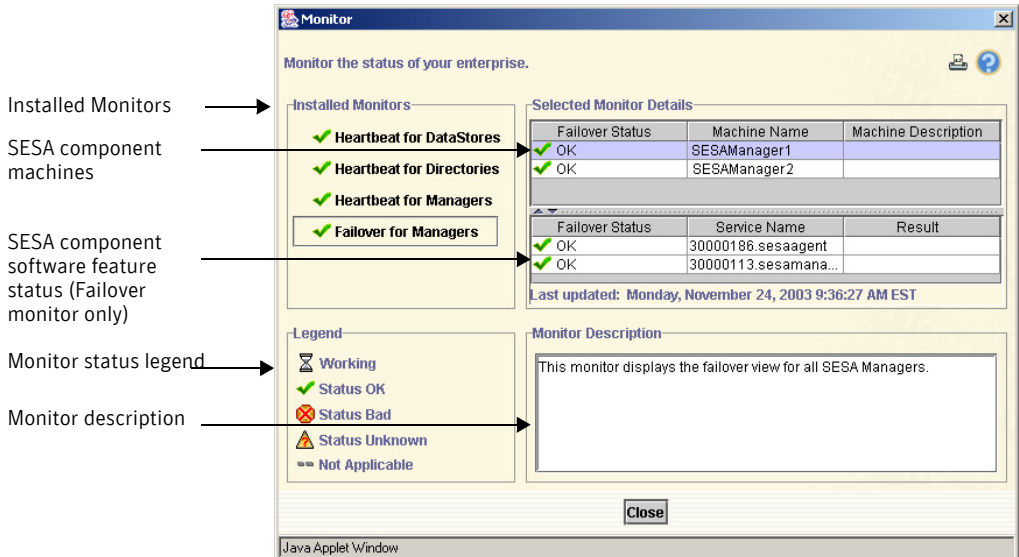| Menu	Description
View	The options on the View menu let you quickly check the security status of your enterprise. From any point in the Symantec management console, you can select Monitor to display the Monitor viewer. The Monitor viewer shows the health of all SESA Managers and the failover status of all SESA DataStores and SESA Directories in your enterprise. See "Monitoring SESA components" on page 44. On the System view tab, when you select an organizational unit you can also display the Heartbeat Monitor viewer and Failover Monitor viewer for computers in that organizational unit. See "Monitoring heartbeat for computers" on page 134 and "Monitoring failover for your SESA Managers" on page 136.

Menu	Description
Selection	The options that appear on the Selection menu depend on your console view (Alerts, Events, Configurations, or System) and what you have selected. You can display the Selection menu options by right-clicking a selected item. One Selection menu option that is available on all tabs is Refresh, which redisplays the Symantec management console user interface to pick up any changes that are made by other administrators. See "Refreshing the Symantec management console" on page 47.
Console	The options on the Console menu are the same regardless of view: ■ Change Password lets you change your logon password. See "Changing your password" on page 48. ■ Detach opens a separate window using your current view. See "Detaching console windows" on page 49. ■ Logout logs you out of the console and redisplays the logon window.
Help	Use the Help menu to display Help on the selected item, or the entire Help system. If the selected item is in the left pane, the Help describes the actions that you can perform for this item. If Help is selected in a Properties dialog box, the Help describes the associated text boxes. See "Accessing Help" on page 55.

Monitoring SESA components

The Monitor viewer lets you check the status of your SESA components from any point in the Symantec management console when you receive a warning message that an error has been detected.

To monitor SESA components

1   In the Symantec management console, in any view, on the View menu, click
    Monitor.

Installed Monitors

SESA component
machines

SESA component
software feature
status (Failover
monitor only)

Monitor status legend

Monitor description

The Monitor viewer contains four sections:

Installed Monitors	Lists the available monitors.
	The following monitors are always available
	■ Heartbeat for DataStores
	■ Heartbeat for Directories
	■ Heartbeat for Managers
	■ Failover for Managers
	The security products that you install may include additional monitors.
	An icon indicates the overall status of the SESA components that are being monitored.
Selected Monitor Details	Lists the SESA component machines in your domain that are enabled for the monitor that you have selected.
	When you select the Failover monitor, a table below the list of machines gives the status for the selected machine.
	Last Updated: shows the date and time that the status of the monitor was last updated.

Legend   Describes the meaning of the Monitor status indicators.

Monitor description   Describes the monitor that you select.

2   View the overall status of your SESA components by checking the status
    indicators that display to the left of the Installed Monitors.
    The Legend describes the meaning of the indicators:

    Status is being checked for the computer.

    Status of all services on the computer is OK.

    Status of one or more services on the computer is bad.

    Status of one or more services on the computer is unknown.

    Heartbeat unsupported–The service is not configured for heartbeat
    monitoring.

Failure of one monitored component sets the status indicator for the
monitor.

3   In the Installed Monitors list, click a monitor to select it.
    The monitor you select is described in the Monitor Description text box.

4   If you are viewing the Failover for Managers monitor, you can display the
    services that are being monitored.
    To select the computer whose status you want to view, at the top of the
    Selected Monitor Details list, click on the computer.
    The services that are being monitored are listed below.
    The format of the service name in the monitor is
    <nnnnnnnn><swfeaturename> where <nnnnnnnn> is the ID of the
    software feature and <swfeaturename> is the name of the software feature.
    The following values can be returned when the Failover Monitor is selected:

OK   The service is working correctly. There has been no need to fail over.

Failed over   The service has failed over to the IP address indicated in the Result
                  column.

NA   The service is not configured for failover.

5   To print a report of the selected monitor's status, click the print icon in the
    upper right corner of the Monitor viewer.
    If column data in the printout is truncated, adjust the column widths and
    print again.

6   To close the Monitor, click **Close**.

Refreshing the Symantec management console

Changes that you make using the Symantec management console are visible on
the user interfaces as soon as you make the change.

Changes are not displayed automatically if they are caused by actions that are
not performed in the Symantec management console. For example, if another
administrator is connected to the SESA Manager and making changes at the
same time as you are, those changes are not displayed automatically. Similarly,
changes are not automatically displayed when you add a computer by installing
a SESA Agent.

Use the Refresh menu option on the Selection menu to see these changes.

Note: The only time that the Refresh option is not available is when you select a
software feature configuration on the Configuration view tab.

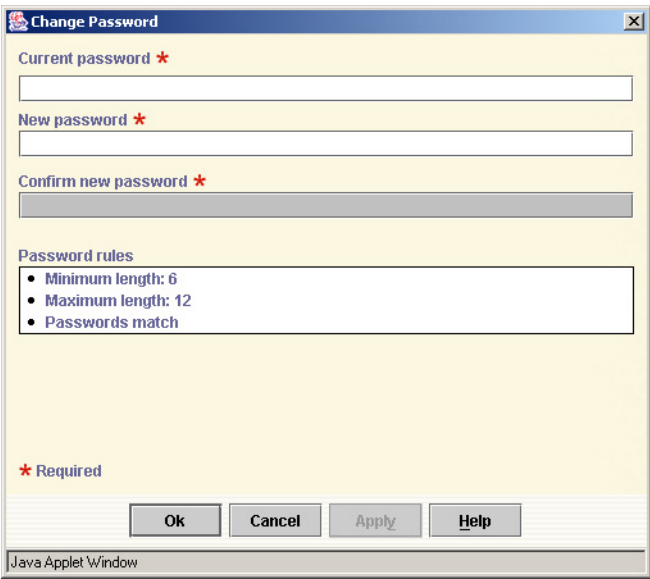**To refresh the Symantec management console user interface**

1   In the Symantec management console, on any view tab, in the left pane,
    click the node that you want to refresh.
    For example, to refresh the list of users, on the System view tab, click Users.

2   On the Selection menu, click **Refresh**.
    You can also refresh the user interface by clicking Refresh on the toolbar.
    Any changes that another administrator who is currently logged on to the
    SESA Manager has made are applied to all objects in the selected node.

Changing your password

To meet the requirements of your company's security policies, you may need to periodically change your logon password.

To change your password

1   In the Symantec management console, in any view, on the Console menu, click **Change Password**.

2   In the Change Password dialog box, do the following:

Current password	Type your password
New Password	Type a new password
	Passwords are case sensitive and must be 6 to 12 alphanumeric characters in length.
Confirm new password	Type the password again to confirm it.
	Under Password rules, a green check mark indicates that the passwords match.

3   Click **OK**.

Detaching console windows

You can detach your current view into a separate window while you work with the console in other views. For example, you could detach the Events view while you make configuration changes on the Configurations view tab.

Detach is useful for automatic monitoring of multiple windows. In the detached window, you can perform all of the actions that could be performed prior to the window being detached. The only thing you cannot do in a detached windows is change to a different view.

See "Monitoring events and alerts in detached windows" on page 273.

To detach a console window

1   In the Symantec management console, on the tabs at the top of the Symantec management console window, select the view that you want to detach.

2   On the Console menu, click **Detach**.

Using the toolbar

The toolbar provides a subset of the most commonly performed tasks. When you select an item in the Symantec management console window, a toolbar option appears for each action you can perform for that item.

Buttons that are not available either do not appear on the toolbar, or are present but are greyed out until an item to which they apply is selected. For example, on the Alerts view tab, the Details button is visible when you display a report, but it is greyed out until you select an alert since it is used to display the details of a selected alert.

Move the cursor over a toolbar icon to see its description.

The Symantec management console is a fully independent application that is hosted in the browser window. Do not use the browser toolbar to navigate in or refresh the Symantec management console. This will disconnect you from your session. To print information from the Symantec management console, use the toolbar print button, rather than using the Internet Explorer or Netscape browser print options.

Table 2-3 shows the toolbar buttons, their function, and where they are displayed.

Table 2-3   Toolbar buttons

Button	Name	Function	Alerts view tab	Events view tab	Configurations view tab	System view tab
	Refresh	Refreshes the selection.	✓	✓	✓	✓
	Auto-Refresh	Causes the selection to be refreshed at a specified interval. See "Modifying administrative settings" on page 186.	✓	✓		
	Print	Prints the currently displayed report or details of an event or alert.	✓	✓	✓ Monitor viewer	✓ Monitor Viewer
	Export	Exports a report to a printer, or HTML, PDF, or CSV file.	✓	✓		
	Filter	Creates a filter for the current report. Filters can be saved as custom reports.	✓	✓		
	Alert Configurations	Displays the Alert Configurations dialog box.	✓			
	Alert Wizard	Creates a new alert configuration.		✓		
	Acknowledge	Acknowledges the selected alerts.	✓			
	Unacknowledge	Unacknowledges the selected alerts.	✓			
	Details	Displays the details of the selected alert or event.	✓	✓		

Button	Name	Function	Alerts view tab	Events view tab	Configurations view tab	System view tab
	Next	Displays the next set of event or alert records when the number of records in a report is larger than the number that is configured to initially display.	✔	✔		
	New Add	Creates a new object of the same kind as the selected object. In a wizard or dialog box, adds an existing management object.	✔ Alert Config dialog	✔	✔	✔
	Delete Remove	Deletes the selected object. In a wizard or dialog box, removes the selected object. This does not delete the object from the SESA Directory.	✔ Alert Config dialog	✔ Custom Reports	✔	✔
	Save All	Saves all changes that have been made using the Alert Configurations dialog box.	✔ Alert Config dialog	✔ Custom Reports		
	Properties	Displays the properties of the selected object.	✔	✔	✔	✔
	Permissions	Displays the Permissions dialog box, from which you set access control for the selected object.	✔	✔	✔	✔
	Deploy	When Organizational Units is selected, displays the Deploy/ Remove SESA Manager Extensions Wizard.				✔
	Distribute	Sends a message to computers telling them to contact the SESA Manager for a new configuration.			✔	✔

Button	Name	Function	Alerts view tab	Events view tab	Configurations view tab	System view tab
	Move	Moves computers from one organizational unit to another.				✓
	Previous	In the Event Details and Alert Details dialog boxes, displays the previous alert or event.	✓	✓		
	Next	In the Event Details and Alert Details dialog boxes, displays the next alert or event.	✓	✓		
	Out of band notification	When you configure SESA DataStore failover, displays a dialog to configure failover notification.			✓	
	Help	Displays Help on the selected item.	✓	✓	✓	✓

Navigating using the left pane

The left pane displays a navigation tree that shows the information that is available in the selected view. In the Alerts and Events views, the left pane contains folders and subfolders of reports. In Configurations view, it contains a folder for each product, and subfolders for software feature configurations. On the System view tab, the left pane contains the management objects that you create.

You expand the navigation tree to select the items you want to view in the right pane.

To navigate using the left pane

1   In the Symantec management console, in the left pane, click the symbol to the left of a folder to expand a folder or subfolder.
    You can also double-click the folder name.
    The items that appear (for example, a list of reports) tell you what you can view in the right pane.

2   To change what appears in the right pane, select one of the folders or icons in the left pane.

Changing the appearance of the right pane

When you click on an item in the left pane, the right pane displays the content of the item. For example, if you click on a report title in Alerts or Events view, the right pane displays the report.

Actions that you can perform when you select content in the right pane are accessed on the Selection menu, right-click menu, or the toolbar.

To change the appearance of the right pane

When the display in the right pane is in column format (for example, when you view reports of events or alerts, or management objects such as roles), you can change the column order or the width of the column display. The display returns to its default arrangement the next time that you log on.

To change the column order

◆ In the Symantec management console, in the right pane, use the left mouse button to drag the column heading to the right or left.

To change the column width

1 Move the mouse pointer over the column border until you see a double-headed arrow.

2 Drag the column border to the right or left to change the width of the column.

To see the full text of a truncated entry

◆ Move your mouse over the text.
   A pop-up window is displayed with the full text.
   If you do not want to resize columns, but the text you want to view is truncated, you can still see the full text.

Initiating actions

The Symantec management console provides several ways to initiate actions on objects.

To initiate actions

The procedures in this documentation describe the use of the Selection menu, but you can use other methods when appropriate, including:

- Using a toolbar button
- Using the right-click menu
  The right-click menu contains the same actions that are available for the object from the Selection menu.
- Double-clicking

To initiate an action using the Selection menu

1   In the Symantec management console, on any console view tab, in the right or left pane, select an object.

2   On the Selection menu, click the action you want to perform.

To initiate an action using a toolbar button

1   On any console view tab, in the right or left pane, select an object.

2   Move the mouse over the toolbar buttons to see the button descriptions.

3   Click the appropriate toolbar button.

To initiate an action using the right-click menu

1   On any console view tab, in the left pane, right-click on the object. (On the System view tab, you can also right click on an object in the right pane.)

2   On the menu that appears, click the action you want to perform.

To display the properties of a management object

◆   On the Systems view tab, in the right pane, double-click an object.

To display the details of an alert or an event

1   On the Alerts view tab or the Events view tab, display the events of a report. See "Viewing reports" on page 238.

2   In the table in the right pane, double-click an alert or event.

Re-displaying open windows

SESA dialog boxes or wizards are displayed in separate windows. If an open SESA window becomes covered by other windows, you can redisplay it.

To redisplay an open window

1   On the keyboard, hold down the **ALT** key and press **TAB**.

2   When a window showing your active applications appears, repeatedly press **TAB** to highlight the icon of a coffee cup that represents a Java application.

3   View the application description in the text box at the bottom of the window.

4   When the correct application is highlighted, release both ALT and TAB.

Using the status indicator

When you are viewing the event records of report in the Alerts view tab or the Events view tab, the status indicator in the bottom left corner of the Symantec management console window tells you which set of events or alerts are currently downloaded for the report.

When you are viewing a chart-based report without viewing event records, the status indicator gives the name of the report.

Accessing Help

The Symantec management console offers a fully integrated Help system that provides Help on the management console and on each of the security products that are installed in your security environment.

To access Help

You can access Help in several ways, depending on where you are in the user interface and what you are trying to accomplish.

To display the Help table of contents

◆   In the Symantec management console, do one of the following on any console view tab:

■   On the Help menu, click **Contents**.

■   Press **Alt/Shift/F1**.

The topic that appears in the right pane of the Symantec Enterprise Security Help window tells you how to use the Contents, Index, and Search tabs to select the topic that you want to view.

To display Help about an object

1   On any Symantec management console view tab, in the left pane, select an
    object.
    For example, on the Events view tab, click Global Reports or on the System
    view tab, click Roles.

2   Do one of the following:

    ■   Click the **Help** toolbar button.

    ■   On the Help menu, click **Help** for the selected object.

    ■   Press **Alt/F1**.

To display Help about a dialog box

1   In a dialog box, do one of the following:

    ■   Click **Help**.

    ■   Press **Alt/F1**.

2   Use the links in the Help topic to display additional Help.

To display Help on a software feature of a configurable product

1   On the Configurations view tab, in the left pane, expand the product folder
    and select the software feature.

2   Do one of the following:

    ■   Click **Help**

    ■   On the Help menu, click **Help** for the selected software feature.

    ■   Press **Alt/F1**.

Using SESA wizards

The Symantec management console provides wizards to help you configure
products and create management objects. Table 2-4 describes the wizards that
are available:

Table 2-4   Symantec management console wizards

View	Wizard	Description
Alerts	Alert Configuration	Helps you create a new alert configuration. See "Creating an alert configuration" on page 298

View	Wizard	Description
	Create a New Custom Report	Helps you create a custom report by defining filters that focus the report on alerts that are important to you. See "About custom reports" on page 246
Events	Alert Configuration	Helps you create a new alert configuration based on a specific event. See "Creating an alert configuration based on an event" on page 285
	Create a New Custom Report	Helps you create a custom report by defining filters that focus the report on events that are important to you. See "About custom reports" on page 246
Configurations	Configuration	Helps you create duplicates of software feature configurations, which you can then edit.
System	Role User Organizational Unit Computer Configuration Group Notification Service	Helps you create roles, users, organizational units, computers, and configuration groups, and notification services. See the following: ■ "Creating a role" on page 70 ■ "Creating a new user" on page 85 ■ "Creating a new organizational unit" on page 100 ■ "Creating computers within organizational units" on page 115 ■ "Creating a configuration group" on page 139 ■ "Adding a notification service" on page 154
	SESA Manager Extensions Deploy/ Remove	Helps you deploy or remove SESA Manager extensions. See "Deploying and removing SESA Manager extensions" on page 106.

Starting wizards

When you access a wizard, wizard panels prompt you for the information that is needed for the object you are creating.

To start most wizards

◆   In the Symantec management console, do one of the following:

■   Select an object (Role, User, and so on) that you want to create, and then, on the Selection menu, click **New**.

■   Right-click an object, and then, on the menu that appears, click **New**.

■   Select an object, and then, on the toolbar, click **New**.

The exception is the Alert Configuration Wizard.

See "Creating an alert configuration based on an event" on page 285 and "Creating an alert configuration" on page 298.

Creating objects with wizards

When you want to add a new management object to your system, you must create it using a wizard. After you create an object, it appears in the Symantec management console window.

Brief instructions tell you how to complete each wizard panel. Red asterisks mark information that you must provide before you can go on to the next panel. All other text boxes are optional.

You can leave text boxes that are optional blank. Since the panels of the Symantec management console wizards correspond to the tabs of the Properties dialog box for each object that you create, you can supply the information later by editing the object's properties.

Figure 2-2 shows the text boxes in a wizard panel.

Figure 2-2   Wizard panel

Figure 2-3 shows the text boxes in the corresponding properties page.

Figure 2-3   Properties dialog box

Editing the properties of objects

You can edit the properties of any object that you created using a wizard.

To edit the properties of an object

1   In the Symantec management console, in the left pane of the appropriate console view tab, select the object.

2   On the Selection menu, click **Properties**.

3   In the Properties dialog box, on the tabs, edit the object's properties.

4   For a description of the text boxes and buttons on the tabs, click **Help**.

5   When you have completed your edits, do one of the following:

   ■   If you edited a management object, click **OK**.

   ■   If you edited a product software feature configuration, click **Apply** to save the configuration and continue editing, or click **OK** to save the configuration and exit.

   ■   If you edited an alert configuration, click **Apply** to save the changes you have made to the configuration you are editing, or click the **Save All** button on the toolbar to save all changes you have made to this and other alert configurations.

Interaction among wizards

Because the management objects of the Symantec management console are interrelated, there is interaction among the wizards. For example, roles define administrative permissions. These permissions are granted to users when they are made members of a role. You can do this using the Role Wizard by adding an existing user to the role that you are creating. Or you can make the association using the User Wizard by adding an existing role to the properties of the user.

This flexibility extends even further. When you add a configured object to another management object, you can modify the properties of the added object at the same time.

Using the example of roles and users again, when you add users to a role, you can view and change the properties of the users. For the purpose of notifications, you can check that you have full coverage based on the users that you include in the role. If you find that there are uncovered hours, you can edit the properties of the users that you are adding to the role.
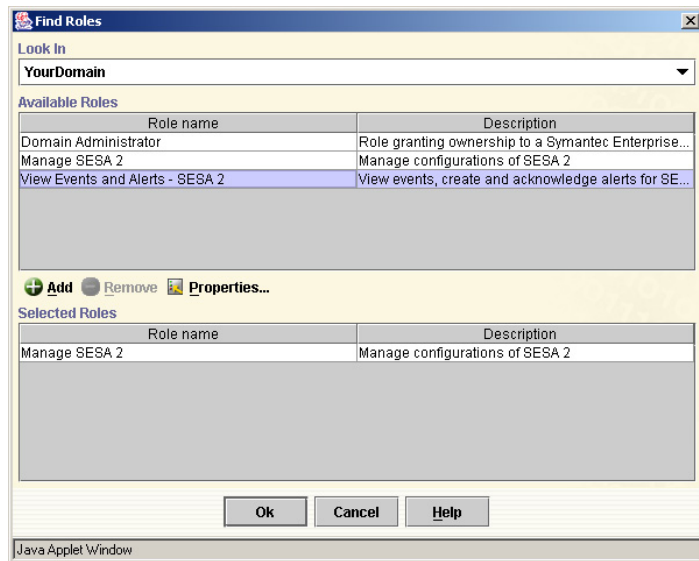
Using Find dialog boxes

When you use a wizard, or view the properties page of a management object, you can click Add to create an association with another management object. This displays the Find dialog for the object to be added.

For example, when you are creating or editing a user, to make the user a member of a role, on the Roles page you click Add to display the Find Roles dialog box.

There is a Find dialog box for each type of management object.

Figure 2-4   Find Organizational Units dialog box

The basic functions that are common to all Find dialog boxes are:

Look In	Defines the where SESA should search for management objects.
	In some cases, this is an editable field, where you can choose from a drop-down list:
	■ In the Find User and Find Role dialog boxes, which support cross-domain searches, you can use the Look In field to select a domain.
	■ In the Find Configurations and Find Services dialog boxes, you use the Look In field to select a product.
	In other cases, where the Look In field defines the domain and cross-domain functionality is not supported, the Look In field is read only.

Available <management objects>	Lists all the instances of the management object that can be selected.
	For example, in the Find Roles dialog box, it lists all roles in the domain shown in the Look In field.
	The Find Computers and Find Users dialog boxes include the ability to specify search criteria to narrow the list.
Add	Adds an item that is selected in the Available list to the Selected list.
	To select multiple items, use the SHIFT and CTRL keys on the keyboard.
	You can also double-click on an item in the Available list to add it to the Selected list.
Remove	Removes an item that is selected in the Selected list.
	To select multiple items for removal, use the SHIFT and CTRL keys on the keyboard.
	You can also double-click on an item in the Selected list to remove it.
Properties	Displays the properties of an item that you have selected in either the Available list or the Selected list.
Selected <management objects>	Lists all the instances of the management object that have been selected for addition to another management object.
OK	Closes the Find dialog box and adds the items in the Selected list to the management object from which you displayed the Find dialog.
	For example, if you displayed the Find Roles dialog box from the Create a new User Wizard or a user's properties pages, the roles in the Selected list are added to the user.
Cancel	Closes the Find dialog without adding any management objects.
Help	Displays Help for the text boxes on the Find dialog box.

Defining the administrative structure of SESA

This chapter includes the following topics:

- About the System view tab administrative features

- Working with domains

- Managing roles

- Managing users

- Managing organizational units

- Managing computers within organizational units

- Managing configuration groups

- Managing SESA DataStores

- Managing SESA Directories

- Managing notification services

- Working with permissions

About the System view tab administrative features

The System view tab lets you access the administrative features that you use to organize the management of your security solutions.

When you log on to the Symantec management console, the roles of which you are a member control whether you have access to the System view tab, and what you can do on it.

For example:

■   If you are a member of the Domain Administrator role, all management objects on the System view tab are available to you.
     You must be a member of the Domain Administrator role to define roles, make users members or roles, or change the permissions of management objects.

■   If you are not a member of the Domain Administrator role but have access to the System view tab, the console access rights and permissions defined in your roles determine which management objects you can see and modify.
     See "Modifying console access rights" on page 77 and "About permissions" on page 156.

The System view tab also lets you create organizational units and configuration groups, and work with SESA DataStores and SESA Directories to manage the security configuration of your organization.

The left pane displays the management objects that define your security infrastructure. The top of the navigational tree is the domain that you defined when you installed SESA. Beneath this are the management objects described in Table 3-1.

You can use the SESA install program to install additional domains to reflect the network structure of your organization. Each installed domain contains a full set of SESA management objects.

Table 3-1 SESA management objects

Management object	Description
Roles	SESA uses role-based access control. A role is a group of access rights that give users who are role members access to various event viewing and management capabilities. A user can be a member of more than one role. You must be a member of the Domain Administrator role to see the Role node, and to create roles and make users members of roles. See "Roles in SESA" on page 30.
Users	Users are the administrators of your security environment who are granted permissions by being assigned to roles. The roles that users belong to let them create management objects, configure products, and/or view and respond to events and alerts. You can also create a user without assigning a role so that the user can receive notifications.
Organizational Units and computers	Organizational units let you logically group your network computers. You can add configurations for product software features to an organizational unit so that you can distribute the configurations easily to all member computers as part of your ongoing security policy.
Configuration Groups	Configuration groups allow for configurations that supersede organizational units. They associate computers and software configurations when you want to perform special-case distribution of the configurations.
DataStores	SESA DataStores store all event and alert data that is generated by SESA and SESA-enabled products. Depending on the quantity of security events and how fast they are logged to the SESA DataStore, more than one SESA DataStore may be necessary for a SESA installation.
Directories	The SESA Directory uses the Lightweight Directory Access Protocol (LDAP) to store the configuration data that is required to manage SESA-enabled products and SESA services.
Notification Services	Notification services are the paging companies that you can use to notify responsible personnel when an alert occurs. A default set of notification services are added when you install the SESA Manager.

Working with domains

Domains facilitate the management of your network resources. A domain is a structural container in the SESA Directory that you use to organize a hierarchy of users, organizational units, computer systems, configuration groups, and managed products and product configurations.

By default, at least one domain is installed when you install your SESA Manager. You can install additional domains as necessary.

For example, if your company is large, with sites in multiple regions, you may need to have a single view of management information, yet have the option to delegate administrative authority, physically separate security data, or have greater flexibility in how users, computer systems, and policies are organized. You may have similar needs if you are a managed service provider that manages multiple independent companies, as well as Internet service providers.

To meet these needs, you can install multiple domains, for example by country, by region, or by company. Each domain you install provides an additional set of instances of the basic SESA directory tree. You can organize the domains you install as peers on different servers, or in a hierarchy on a single server, depending on your corporate needs.

The top level domain, sometimes called the administrative domain, is the first item in the left pane on all Symantec management console view tabs.

When you select a domain, the Selection menu and toolbar buttons provide options for the following:

■ Editing domain properties

■ Refreshing the objects within the domain
 See "Refreshing the Symantec management console" on page 47.

Domains are the only objects on the System view tab that you cannot create.

You can create additional domains when you install SESA. See the section on creating domains in the *Symantec Enterprise Security Architecture Implementation Guide*.

Editing domain properties

In the Domain Properties dialog box, you can view or change the properties for the selected domain.

The tabs of the Domain Properties dialog box provide options for the following:

■ Editing the domain description

■ Viewing the master heartbeat service computer for the domain

Editing the domain description

In the Domain Properties dialog box, on the General tab, you can type a description of the domain if none is provided, or edit the existing description.

To edit the domain description

1   In the Symantec management console, on the System view tab, in the left pane, click the domain at the top of the directory tree.

2   On the Selection menu, click **Properties**.

3   In the Domain Properties dialog box, on the General tab, edit the description.
     You cannot change the Name or Distinguished name text boxes.

4   Click **OK**.

Viewing the master heartbeat service computer for the domain

The heartbeat functionality of SESA tracks the health of the SESA network. It provides near real-time status of SESA services on SESA-enabled computers. This information is stored in memory in the master heartbeat service, which is located on the SESA Manager.

You can view the status of the monitored services by displaying the Heartbeat Monitor view for a selected organizational unit.

See "Monitoring heartbeat for computers" on page 134.

By default, the Master Heartbeat service computer for the domain is the first SESA Manager that is installed. After that, the Master Heartbeat service computer can be changed in two ways:

■   Manually, through a configuration process
     See "Changing the Master Heartbeat service computer" on page 198.

■   Automatically, through an election process
     See "How the Master Heartbeat service computer can be changed by an election" on page 199.

The Heartbeat tab shows the last acting Master Heartbeat service computer. That computer remains the master until a configuration change is made or another computer wins an election.

To view the master heartbeat service computer for a domain

1   In the Symantec management console, on the System view tab, in the left pane, select a domain.

2   On the Selection menu, click **Properties**.

3   In the Domain Properties dialog box, on the Heartbeat tab, view the master service computer.

4   Click **OK**.

Managing roles

SESA uses role-based access control. A role is a group of access rights that give users who are role members access to various event viewing and management capabilities. A user can be a member of more than one role.

See "Roles in SESA" on page 30.

When you select Roles, the Selection menu and toolbar provide options for the following:

■   About the Domain Administrator role

■   Creating a role

■   Editing role properties

■   Deleting a role

■   Refreshing the roles list
    See "Refreshing the Symantec management console" on page 47.

Note: Only members of the Domain Administrator role can add or modify roles.

You create new roles using the Role Wizard. Each role is specific to one product.

If a user needs access to more than one product, you can create a role for each product and then make the user a member of all the necessary roles.

Planning for role creation

Because roles control user access, before you create roles you should plan carefully.

You need to identify the tasks that are done in your security environment, and who performs them. The tasks determine the kinds of roles that you must create. Who performs these tasks determine which users should be members of each role.

- Who allocates responsibilities within your security environment?
  If these users need to create roles, they must be members of the Domain Administrator role.

- Who administers your security network by creating management objects such as users, organizational units, and configuration groups?
  These users must be members of roles that provide management access and the ability to view the System view tab.

- What products are installed and who is responsible for configuring them?
  These users must be members of management roles for the products for which they are responsible. They may only need to view the Configurations view tab.

- Who is responsible for monitoring events and alerts?
  These users must be members of event viewing roles for the products for which they are responsible. They must be able to view the Events and Alerts tabs. They may also need to view event and alert details.

- Who responds to problems and threats?
  These users must be members of event viewing roles, with access to the Event and Alerts tabs and the ability to acknowledge and unacknowledge alerts.

These affect the kinds of roles you create and which users you make members of each role.

For example, you can create a single role that gives its members access to both management and event viewing for a product, so that they can both configure the product and monitor the events it generates.

On the other hand, if different users are responsible for implementing security policies and security monitoring, you can create two roles for each product: one for product management and configuration and one for event viewing. You could then make different users members of each role.

About the Domain Administrator role

The Domain Administrator role is the default role created during the initial installation of SESA, or when a new domain is created by using the SESA installer. Members of the Domain Administrator role have full access to all items that are contained in the domain that the role is defined in. This means that members of the role can view all events and manage all products that exist or are installed in that domain.

The default user, administrator, is also created when the SESA Manager is installed. The administrator is automatically a member of the Domain Administrator role. To access the SESA Manager for the first time, you must log on as this default user.

You can add other users to the Domain Administrator role, but you cannot change any other characteristics of the role. Only a user with the Domain Administrator role can add or modify roles, or make a user a member of a role.

If a user is a member of the Domain Administrator role, no other roles are needed.

See "Making a user a member of a role" on page 75.

Creating a role

You create all roles using the Role Wizard.

Note: Only a user who is a member of the Domain Administrator role can create roles.

To create a role

1   In the Symantec management console, on the System view tab, in the left pane, click **Roles**.

2   On the Selection menu, click **New.**

3   In the first panel of the Role wizard, click **Next**.

4   In the General panel, do the following:

   ■   In the Role name text box, type a name for the role.

   ■   In the Description text box, type a description of the role.
       The description is optional.

5   Click **Next**.

6   In the Product Component panel, in the Product drop-down list, select a product.
    This role gives its member access to this product alone. If a user needs access to other products, create roles for those products and make the user a member of those roles.

7   Choose whether the role gives members access to all components of a product, or to a limited set of components.
    Do one of the following:
    ■   To create the role with access to all features of the product, select **Role members will have access to the entire product**.
    ■   To specify product components for the role, select **Role members will have access to only the selected product components**.
        Select at least one product component from the list that appears.
        See "Modifying product component selections" on page 79.

8   Click **Next**.

9   In the Manage and View Events panel, select one or both of the following:
    ■   **Allow management of policies and configurations for <PRODUCT NAME>**
        Role members can create and modify configurations of the software features of the product.
    ■   **Allow viewing of events generated from <PRODUCT NAME>**
        Role members can view alert and event reports that are generated by the product.
    If you select both of these options, role members can both modify configurations and view event reports.
    If members of this role will create and modify alert configurations, check both check boxes so that the members of the role have both the event viewing privileges necessary to create alert configurations and the management privileges necessary to distribute the configurations.

10 Click **Next**.

11 In the Console Access Rights panel, do one of the following:
    ■   To give role members the ability to see all of the tabs of the Symantec management console, click **Role members will have all console access rights**.
    ■   To limit what role members can see when they display the Symantec management console, click **Role members will have only the selected console access rights**.
        Select at least one console access right from the list that appears.
        See "Modifying console access rights" on page 77.

Console access rights make the tabs and other features of the Symantec management console visible to role members when they log on.

They do not automatically let members use these features. Your choice in the Manage and View Events panel in step 9 determines what kinds of tasks members can perform.

If this role allows the creation or modification of alert configurations, give the role access to the Systems tab so that members of the role can distribute the alert configurations.

12 Click **Next**.

13 if you selected to allow viewing of events in step 9, in the Report Group Selection panel, do one of the following:

   ■   To create the role with access to all reports, select **Role members will have access to all report groups**.

   ■   To limit the report groups for the role, select **Role members will have access to only the selected report groups**.

If you did not select to allow viewing of events, this panel is not displayed. Continue at step 16.

If you selected to specify report groups, a list of report groups appears.

You can resize the columns, or view the complete description of a report group by moving the mouse pointer over the item.

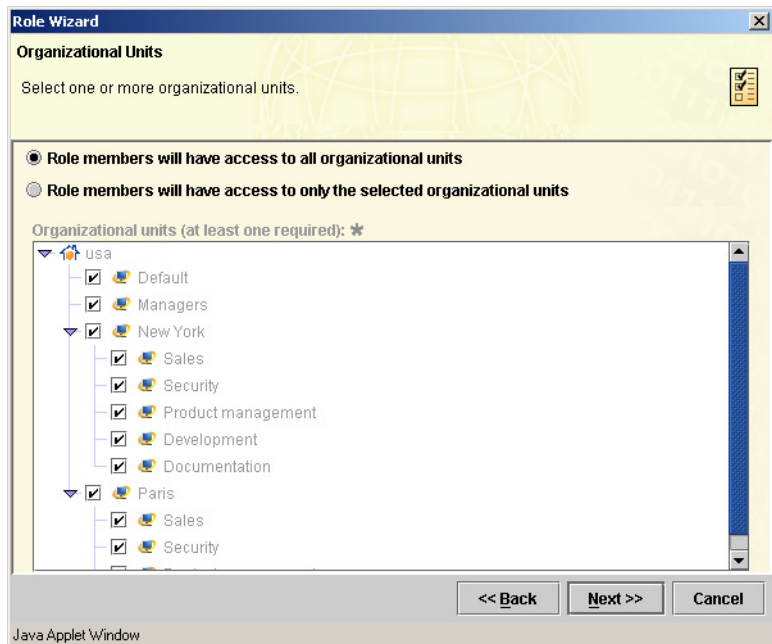**14** Select one or more report groups by checking or unchecking the check box in the Enabled column.

To make selection easier, you can right-click and select from the following:

- Check All
- Uncheck All

15 Click **Next**.

16 In the Organizational Units panel, do one of the following:

- To give role members access to all organizational units, select **Role members will have access to all organizational units**.

- To give role members access to specific organizational units, select **Role members will have access to the selected organizational units**. This activates the organizational units tree.

17 Select at least one organizational unit to associate with this role.

When you select an organizational unit that has additional organizational units below it, users of the role are given access to those organizational units as well.

If you add an organizational unit to a role, users who are role members and who have event viewing access can see events generated by security products that are installed on the computers that belong to that organizational unit. Role members cannot see events from computers in organizational units that have not been added to their roles.

18 Click **Next**.

19 In the Members panel, do one of the following:

■ To make users members of the role now, click **Add**.
When you are finished, click **Next**.

■ Click **Next**.
You can make users members of the role later by editing the role's properties.

See "Making a user a member of a role" on page 75.

When users log on to the SESA Manager, the roles of which they are members determine how the Symantec management console user interface appears. For example, users can only see product components that have been defined in their roles.

20 In the Role Summary panel, review the information that you have specified. Then do one of the following:

■ To make changes, click **Back**.

■ To create the role, click **Finish**.
The Task/Status list at the bottom of the panel scrolls up to show the role properties that are being created. A green check mark indicates success.
When the role is created, the Cancel button changes to a Close button.

21 Click **Close**.
The new role is added to the list of roles in the right pane.
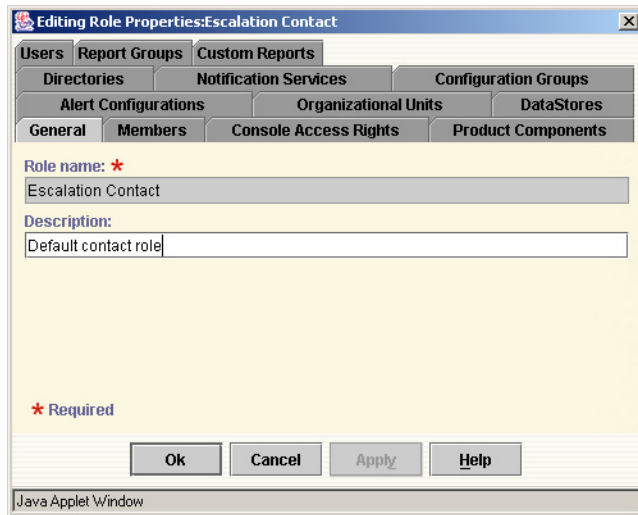
Editing role properties

After you create a role, you can modify it by editing its properties. For example, as you create new organizational units or users, you can add them to existing roles.

You can also edit a role to set access control permissions that members of the role have for management objects that are defined in the SESA Directory.

You can edit the properties of a role by selecting the role in the right pane, or from any dialog box that lets you display the role's properties.

To edit role properties

1   In the Symantec management console, on the System view tab, in the left
    pane, click **Roles.**

2   In the right pane, select the role that you want to edit.

3   On the Selection menu, click **Properties**.

4   Use the tabs of the Editing Role Properties dialog box to make changes to the
    role.

5   Do one of the following:

    ■   To save changes and close the dialog box, click **OK**.

    ■   To apply your changes without closing the dialog box, click **Apply**.

    ■   To close the dialog box without saving your changes, click **Cancel**.
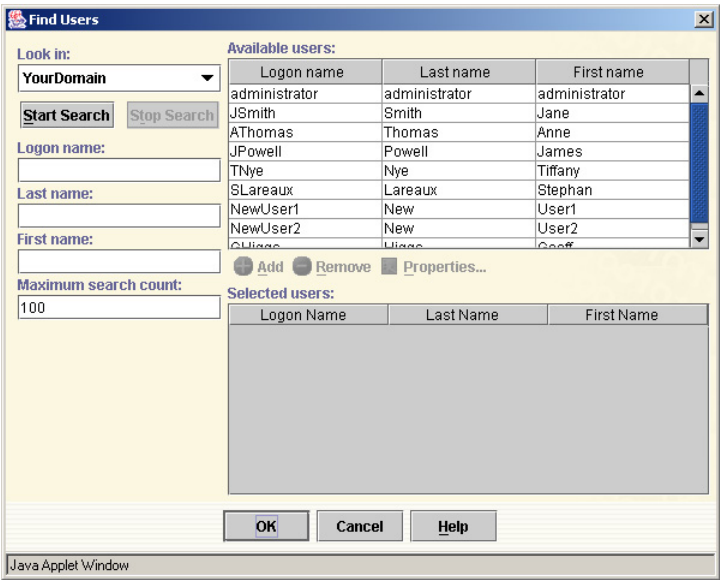
Making a user a member of a role

When a user logs on to SESA, access to the various products and event data is
controlled by the user's role membership. For example, users can only see
products if they are members of the roles that have been created for those
products.

To make a user a member of a role

1   In the Symantec management console, on the System view tab, in the left
    pane, click **Roles.**

2   In the right pane, select the role that you want to edit.

3 On the Selection menu, click **Properties**.

4 On the Members tab, click **Add**.

5 In the Find Users dialog box, do one of the following:

- To proceed without modifying the Available users list, select one or more users, and then continue at step 6.

  The Available users list shows all users for the currently selected domain, up to the number of users indicated by the Maximum search count text box.

- To modify the Available users list by specifying search criteria, do the following:

Look in	In the drop-down list, select the domain in which to search for users.
Logon name	Type all ore part of the user's logon name.
	For this and the next two text boxes, you can specify a partial name that contains one or more asterisks.
	For example, if you type *dev* in the Logon name text box, when you search only users whose logon names contain this string are returned.
Last name	Type all or part of the user's last name.

First name	Type all or part of the user's first name.
Maximum search count	Type a number to reduce or increase the number of computers that are returned by the search.
Start search.	Click here to start the search.
	The Available users list is revised based on the search criteria.
Stop search.	Click here to stop the search before it is complete.

In the revised Available users list, select one or more users.

6 Click **Add**.

The users are added to the Selected Users list.

7 To view or edit the properties of a user, select the user, and then click **Properties**.

Use the Editing User dialog box to make changes to the user's properties, and then click **OK**.

See "Editing user properties" on page 88.

8 Click **OK**.

9 In the Editing Role dialog box, click **OK**.
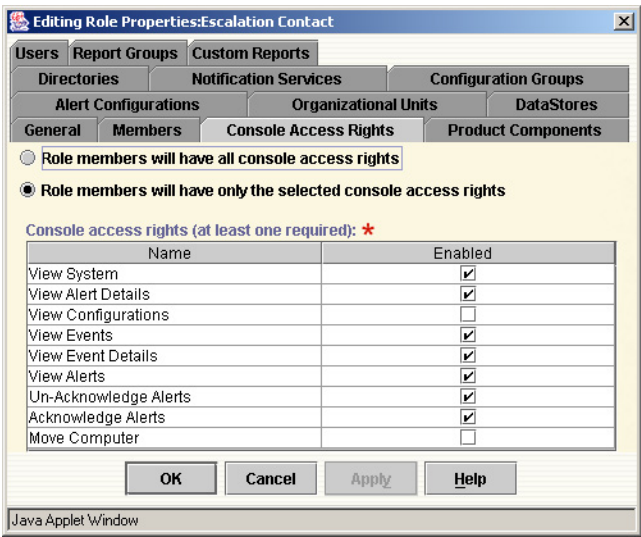
Modifying console access rights

Console access rights control what parts of the Symantec management console user interface members of a role can see when they log on.

You can modify the console access rights you assigned when you created a role.

To modify console access rights

1 In the Symantec management console, on the System view tab, in the left pane, click **Roles.**

2 In the right pane, select the role that you want to edit.

3 On the Selection menu, click **Properties**.

4 On the Console Access Rights tab, do one of the following.

- To give members of the role the ability to see all of the tabs of the Symantec management console, click **Role members will have all console access rights**.

- To limit what members of the role can see when they display the Symantec management console, click **Role members will have only the selected console access rights**.

If you select to limit what members of the role can see, a list of console access rights appears.

The console access rights that are enabled depend on the rights that were granted when the role was created.

5   In the right column, enable or disable viewing of the GUI elements listed in the left column.
To make selection easier, right-click over the table and select from the following:

■   Check All
     If you want to allow most of the access rights, this lets you start with all rights enabled.

■   Uncheck All
     If you want to allow only a few access rights, this lets you start with all rights disabled.

6   Click **OK**.

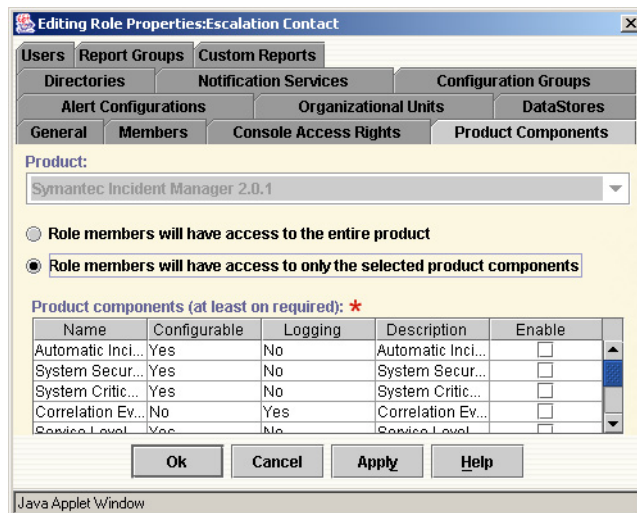## Modifying product component selections

The Product Components tab lets you select the product components to which role members have access. These determine what members of the role can see and do when they log on to the Symantec management console.

For example, if you create a role to manage policies and configurations, the members of the role are only able to see and configure the components that you enable on the Product Components Selection tab. Similarly, members of a role for event management only see the events you enable here.

To modify product components selections

1   In the Symantec management console, on the System view tab, in the left pane, click **Roles.**

2   In the right pane, select the role that you want to edit.

3   On the Selection menu, click **Properties**.

4   On the Product Components tab, do one of the following:

   ■   To provide access to all features of the product, select **Role members will have access to the entire product**.

   ■   To specific product components for the role, select **Role members will have access to only the selected product components**.

   If you selected to specify product components, a list of product components appears.

The list gives the name of each component, shows whether it is configurable, logs events to SESA, or both, and describes the component.

You can resize the columns, or view the complete description of a product component by moving the mouse pointer over the item.

5   Select one or more components by checking or unchecking **Enabled**.
    To make selection easier, you can right-click and, from the menu that appears, select from the following:
    - Check All
    - Uncheck All
    - Check All Configurable
    - Check All Logging
      For example, to enable only components that log events, right-click and select Uncheck All. Then right-click again and select Check All Logging.
    For example, to enable only components that log events, right-click and select Uncheck All. Then right-click again and select Check All Logging.

6   Click **OK**.

Modifying permissions in roles

Roles include permissions that define the level of access that members of the role have to objects that appear in the Symantec management console. These objects are stored in the SESA Directory.
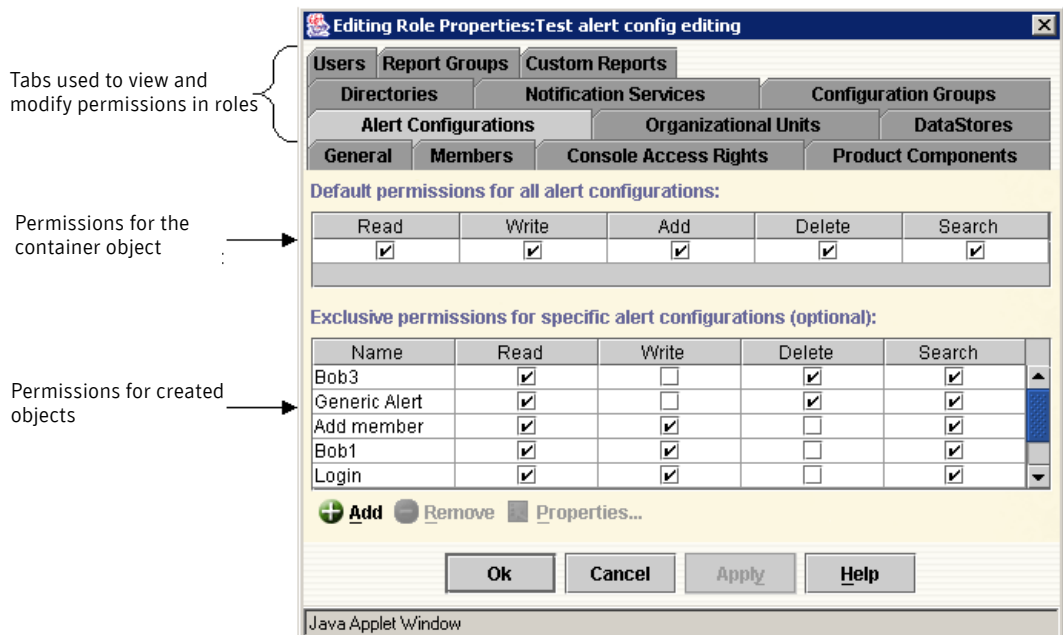
Role-specific permissions are assigned to the objects when you create each role.

You can change the permissions for the following:

- Container objects that were created when you installed SESA.

- New objects that you create within the container objects.

When you view the properties of a role, you can see and modify the permissions for the role by displaying tabs in the Role Properties dialog box. Figure 3-1 shows the permissions for alert configurations:

Figure 3-1   Alert Configuration permissions

Tabs used to view and
modify permissions in roles

Permissions for the
container object

Permissions for created
objects

Caution: Modifying permissions is an advanced feature. You should only customize permissions if you have a clear understanding of how access control works in the SESA Directory.

For a more detailed description of permissions, see "Working with permissions" on page 156.

The initial permissions given to objects depend on the selections that you make when you create the role. For example, the default permissions for members of a role that you create for management are different from the permissions for members of a role that you create for event viewing, as shown in Table 3-2.

Table 3-2   Access control permissions created for roles

Container object	Management role permissions	Event viewing role permissions
Alert Configurations	Read/Write/Add/Delete/Search	Read/Write/Add/Delete/Search
Organizational Units	Read/Write/Add/Delete/Search	Read/Search
DataStores	Read/Write/Add/Delete/Search	Read/Search
Directories	Read/Write/Add/Delete/Search	Read/Search
Notification Services	Read/Write/Add/Delete/Search	None
Configuration Groups	Read/Write/Add/Delete/Search	None
Users	Read/Write/Add/Delete/Search	None
Report Groups	None	Read/Search
Custom Reports	None	Read/Write/Add/Delete/Search

The following procedures describe ways that you can modify permissions by editing a role. You can also modify permissions for most objects by selecting the Permissions option from the Selection menu.

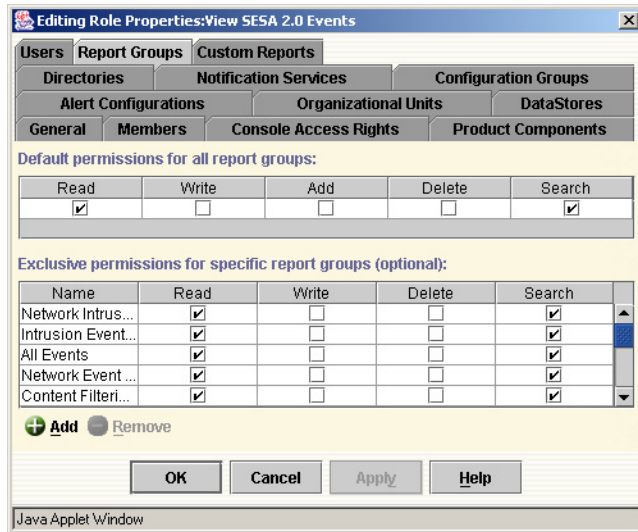See "Modifying permissions from the Permissions dialog box" on page 158.

To modify permissions in roles

The following examples show how you can modify permissions:

- To hide a report group from members of a role
  When members of this role log on and view the Events tab, the report group is not visible.

- To hide all users from members of a role
  When members of this role log on, and then click the System view tab, they do not see the Users node in the left pane.

- To prevent members of a role from deleting configuration groups
  When members of this role log on and select Configuration Groups from the System view tab, they see configuration groups; however, if they try to delete a configuration group, they receive an error message informing them that they do not have authorization to delete the object.

To hide a report group from members of a role

1   In the Symantec management console, on the System view tab, in the left pane, click **Roles**.

2   In the right pane, select the role that you want to edit.

3   On the Selection menu, click **Properties**.

4   On the Report Groups tab, under Exclusive permissions for specific report groups (optional), scroll to the Anti Virus Event Family.

5   For the Anti Virus Event Family, uncheck **Read** and **Search**.

6   Click **OK**.

To hide all users from members of a role

1   On the System view tab, in the left pane, click **Roles.**

2   In the right pane, select the role that you want to edit.

3   On the Selection menu, click **Properties**.

4   On the Users tab, under Default permissions for all users, right-click and the click **Uncheck All**.

5   Click **OK**.

To prevent members of a role from deleting a configuration group

1   On the System view tab, in the left pane, click **Roles.**

2   In the right pane, select the role that you want to edit.

3   On the Selection menu, click **Properties**.

4   On the Configuration Groups tab, under Exclusive permission for specific configuration groups (optional), scroll to the configuration group that you want to protect from deletion.

5   If you do not see the configuration group you want, click **Add**.
    For example, you would have to add a configuration group to the list if you created it after creating the role.

6   In the Find Configuration Group dialog box, in the Available Configuration Groups list, select the configuration group that you want to protect.

7   Click **Add**, and then click **OK**.

8   On the Configuration Groups tab, for the newly added configuration group, uncheck **Delete**.

9   Click **OK**.

Deleting a role

You can delete roles when they are no longer in use.

Before you delete a role, you may want to view the properties of the role to ensure that none of your users requires it.

To delete a role

1   In the Symantec management console, on the System view tab, in the left pane, click **Roles**.

2   In the right pane, select the role that you want to delete.

3   On the Selection menu, click **Properties**.

4   On the Members tab, verify that no users are role members.
    If a user is a role member, when you delete the role, that user's role membership is removed.

5   Click **Cancel**.

6   On the Selection menu, click **Delete**.
    A message warns you that all members of the selected role will be removed. This means that users will no longer have access to the role. The users are still defined in the SESA Directory.

7   Select one of the following:

- ■   Yes: Delete the role from the SESA Directory.
  The role is removed from the list of roles in the right pane.

- ■   No: Do not delete the role.

Managing users

Users are the administrators of your security products, contacts for notifications, or both. Users who are administrators are members of roles that define their administrative permissions. Users who only receive notifications do not have to be members of a role.

On the System view tab, when you select Users, the Selection menu and toolbar provide options for the following:

- ■   Creating a new user
- ■   Editing user properties
- ■   Modifying user permissions
- ■   Deleting a user
- ■   Refreshing the users list
  See "Refreshing the Symantec management console" on page 47.

Creating a new user

You must use the Create a new User Wizard to create a user. The wizard prompts you for required information that the user needs to log on to the SESA Manager. It also lets you specify notification information for users who are notified when alerts occur.

See "Using SESA wizards" on page 56.

When and how you complete the optional user information depends on your organization's information gathering strategy and the requirements of the security products that you install.

The Create a new User Wizard is designed for flexibility and to provide multiple ways to collect information. You can supply all pertinent user information at the time you use the wizard to create the user. Alternatively, you can provide only the required information and add more information later by editing the user's properties.

See "Editing user properties" on page 88.

This procedure describes how to specify required information. It contains pointers to sections that describe how to enter additional user information.

To create a new user

1   In the Symantec management console, on the System view tab, in the left pane, click **Users**.

2   On the Selection menu, click **New**.

3   In the first panel of the Create a new User Wizard, click **Next**.

4   In the General panel, do the following:

Logon name   Type the logon name for the new user.

Last name   Type the user's last name.

First name   Type the user's first name.

The other text boxes in the General panel are optional. You can provide data for optional text boxes later by editing the user's properties. Online Help on the User Properties dialog box provides text box descriptions.
See "Editing user properties" on page 88.

5 Click **Next**.

6 In the Password panel, in the Password text box, type a Password, using from 6 to 12 alphanumeric characters. The password is case sensitive.
Green check marks under Password rules indicate that your password conforms to the length rules.

7 In the Confirm password text box, retype the password.
A green check mark indicates that the passwords match.

8 Click **Next.**

9 In the Business panel, do one of the following:

■ Specify business information for the user, and then click **Next**.

■ Click **Next**.
You can specify business information later by editing the user's properties.

See "Specifying user business and contact information" on page 89.

10 In the Contact Information panel, do one of the following:

■ Specify contact information for the user, and then click **Next**.

■ Click **Next**.
You can specify contact information later by editing the user's properties.

See "Specifying user business and contact information" on page 89.

11 In the Notifications panel, do one of the following:

■   Specify email addresses and pager numbers for the user, and times when those contacts can be used for notifications, and then click **Next**.

■   Click **Next**.
You can specify email addresses, pager numbers, and contact times later by editing the user's properties.

See "Specifying notification information" on page 94.

12 In the Roles panel, do one of the following:

■   To add roles to define the user's permissions now, click **Add**. When you are finished, click **Next**.

■   Click **Next**.
You can add roles later by editing the user's properties.

See "Making a user a member of a role" on page 93.

Until a role is added to a user, the user cannot log on to the Symantec management console.

13 In the User Summary panel, review the information that you have specified. Then do one of the following.

■   To make changes, click **Back**.

■   To create the user, click **Finish**.
The Task/Status list at the bottom of the panel scrolls up to show the user properties that are being created. A green check mark indicates success.
When the user is created, the Cancel button changes to a Close button.

14 Click **Close**.
The new user is added to the list of users in the right pane.

Editing user properties

After you create a user, you can edit the user properties to add or modify information. The following procedures describe how to modify user properties:

■   Changing a user's password

■   Specifying user business and contact information

■   Making a user a member of a role

■   Specifying notification information

Changing a user's password

You can change passwords in two ways:

■ Users can change their own passwords using the Change Password option on the Console menu of the Symantec management console.
See "Changing your password" on page 48.

■ Administrators can change a user's password by editing the user properties.

To change a user's password

1 In the Symantec management console, on the System view tab, in the left pane, click **Users**.

2 In the right pane, select the user whose password you want to change.

3 On the Selection menu, click **Properties**.

4 In the User Properties dialog box, on the Password tab, in the Password text box, type a new password.
Passwords are case sensitive and must be 6 to 12 alphanumeric characters in length.

5 In the Confirm password text box, type the password again to confirm it.

6 Click **OK**.

Specifying user business and contact information

In the User Properties dialog box, the Business tab and Contact information tab let you supply detailed information about the user. The choice of a preferred language is particularly important.

You can specify this information when you create a user using the Create a New User Wizard or by editing the user properties.

To specify user business and contact information

1 In the Symantec management console, on the System view tab, in the left pane, click **Users**.

2 In the right pane, select the user that you want to edit.

3 On the Selection menu, click **Properties**.

4   In the User Properties dialog box, on the Business tab, type the business information for the user.

For descriptions of these text boxes, click **Help**.

5   To specify the user's preferred language, in the Preferred language drop-down list, select a language.

The options from which you can select are variants of the installed languages used on the SESA DataStores to which your logon privileges give you access, and variants of English.

The specific options that are displayed are determined by the locales that the visible SESA DataStores support. These locales are specified in one of the following ways:

■   Language code alone
    All the known language and country pairs are displayed for the language. For example, if the language code is en, then all supported variants of English are displayed. This includes English (United States), English (Great Britain), English (Australian), and so forth.

■   Language code and country code
    A single entry is displayed that matches both the language code and country code. For example, if the language code is fr and the country code is CA, the option that is displayed is French (Canada).

The preferred language that you select controls the format of currency, date and time, and the use of numerical separators when this user is logged into the Symantec management console. Users who have a localized version of SESA see the Symantec management console in their preferred language.

When the SESA environment includes multiple SESA Managers and SESA DataStores and the installed languages for these are different, users may see a mix of languages.

See "Preferred language behavior in the Symantec management console" on page 92.

6   To identify the user's manager, under Manager, click the browse button (...) to display the Find Users dialog box.

The manager must exist as a user in SESA.

7   In the Find Users dialog box, do one of the following:

■   To proceed without modifying the Available users list, select the user who is the manager, and then click **OK**.

The Available users list shows all users for the domain, up to the number of users indicated by the Maximum search count text box.

■   To reduce the number of users in the Available users list, specify search criteria, as follows:

Look in	This text box shows the domain. You cannot change it.
Logon name	Type all or part of the user's logon name.
	For this and the next two text boxes, you can specify a partial name that contains one or more asterisks.
	For example, if you type *dev* in the Logon name text box, when you search only users whose logon names contain this string are returned.
Last name	Type all or part of the user's last name.
First name	Type all or part of the user's first name.
Maximum search count	Type a number to reduce or increase the number of computers that are returned by the search.
Start search.	Click here to start the search.
	The Available users list is revised based on the search criteria.
Stop search.	Click here to stop the search before it is complete.

In the revised Available users list, select the user who is the manager, and then click **OK**.

8   To identify the user's administrative assistant, under Administrative assistant, click the browse button (...) to display the Find Users dialog box and select the administrative assistant, as described in step 7.

The administrative assistant must exist as a user in SESA.

9   On the Contact Information tab, type the contact information for the user.

10   Click **OK**.

Preferred language behavior in the Symantec management console

The language used in the Symantec management console depends on the language that is preferred by the user, and on the language of the SESA Manager.

When the SESA environment uses a single language for all SESA Managers and SESA DataStores and all users are created with that language as the preferred language, then everything in the Symantec management console appears in that language.

For example, for a Japanese site with multiple SESA Managers (with full Japanese support), where all clients support and prefer Japanese and all databases support Japanese, everything appears in Japanese.

When the SESA environment includes multiple SESA Managers and SESA DataStores and the installed languages for these are different, users may see a mix of languages in the Symantec management console. This is because by default, the supported locale that best fits the session locale is used for the Symantec management console display.

For example, consider a site that contains both Japanese and English SESA Managers. When a Japanese user logs on to the English SESA Manager, the Symantec management console displays English text almost exclusively. The exceptions would be items such as date choosers and locale lists.

No matter which SESA Manager a user logs on to, the English database reports and data appear in English while the Japanese database reports and data appear in Japanese.

If a Japanese version of a SESA-integrated product is installed on an English SESA Manager, users who log on to the English SESA Manager see the Symantec management console in English, but if they run the integrated product, it appears in Japanese.

Note: Any computer on which you launch the Symantec management console must have the appropriate fonts installed. For example, a computer that does not have Japanese fonts installed cannot display Japanese characters in the Symantec management console.

Making a user a member of a role

The roles a user is a member of define the user's administrative permissions in the Symantec management console.

Roles are product-specific and are created as one or both of the following:

- Roles that allow the management of policies and configurations for a product
  Users who are members of these roles can change the security configurations of an integrated product and distribute them to specific computers, organizational units, and configuration groups.

- Roles that allow the viewing of events generated by a product
  Users who are members of these roles can view alerts and events for a product, and create alerts and customized reports.

When a user requires access to multiple products, you must make the user a member of multiple roles.

You can make a user a member of a role when you create the user using the Create a New User Wizard or by editing the user's properties. This topic describes adding a role by editing the user's properties.

Note: You must be a member of the Domain Administrator role to make a user a member of a role.

To make a user a member of a role

1 In the Symantec management console, on the System view tab, in the left pane, click **Users**.

2 In the right pane, select the user that you want to edit.

3 On the Selection menu, click **Properties**.

4 In User Properties dialog box, on the Roles tab, click **Add**.

5 In the Find Roles dialog box, use the Look in drop-down list to select the domain in which to find the role.
   Users can have access to roles in multiple domains.

6 In the Available Roles list, select one or more roles.
   If you are not a member of the Domain Administrator role, the Find Roles dialog box displays but does not contain roles.

7 Click **Add**.

8 Click **OK**.

9 In the User Properties dialog box, to view or edit the properties of a role, select it, and then click **Properties**.
   Use the Editing Role Properties dialog box to make changes to the role.
   See "Editing role properties" on page 74.

10 To remove a role, select it, and then click **Remove**.

11 Click **OK**.

Specifying notification information

When you configure alerts, you can identify users who are notified when the alert occurs. For each user, you can specify the email addresses and pager numbers that are used to send these notifications. You can also specify when the user is notified. For example, you can specify one email address to be used Monday through Friday from 8:00 AM to 5:00 PM, and a pager to be used on "off hours"—Saturday, Sunday, and Monday through Friday from after 5 PM.

Note: Before you add users to alert configurations for the purpose of notification, you must specify the email server for alerts.
See "Configuring alert email and retry settings" on page 184.

You can add email addresses, pager numbers, and notification times when you create a user with the Create a New User Wizard or by editing the user. This method describes adding this information by editing the user's properties. You can supply information using the Notifications tab in the same way when you create the user.

When a user is notified of an alert, the information the user receives depends on whether the notification method is email, short email, or pager.

See "About alert notifications that are sent to users" on page 98.

Specify notification information

You can specify the following:

■ Email addresses

■ Pager numbers

■ The day and time ranges when the contact method can be used to send a user notifications of alerts

The combined number of email addresses and pager numbers cannot exceed five.

To specify a user's email address

1   In the Symantec management console, on the System view tab, in the left pane, click Users.

2   In the right pane, select the user that you want to edit.

3   On the Selection menu, click **Properties**.

4 In the User Properties dialog box, on the Notifications tab, in the drop-down list, select **Email**.

5 Click **Add**.

6 In the Email dialog box, in the Email address text box, type an email address.

7 If the user receives email on a device with a small screen such as a handheld device, check **Send shortened email message**.
This sends an abbreviated email message that is easier to read.

8 Click **OK**.

9 On the Notifications tab, do any of the following:

- To add additional email addresses, repeat steps 5 through 8.

- To edit an existing email address, select it, and then click **Properties**.

- To remove an existing email address, select it, and then click **Delete.**

10 Specify notification times if desired.
See "To specify notification times" on page 97.

11 Click **OK**.

To specify a user's pager number

1 On the System view tab, in the left pane, click **Users**.

2 In the right pane, select the user that you want to edit.

3 On the Selection menu, click **Properties**.

4   In the User Properties dialog box, on the Notifications tab, in the drop-down
    list, select **Pager**.

5   Click **Add**.

6   In the Pager dialog box, In the Number text box, type a pager number.

7   In the Notification service drop-down list, select the notification service
    used by the user.
    Notification services are the paging companies used to notify responsible
    personnel when an alert occurs.
    If you do not see the service that you want to select, you can add it using the
    Notification Services node.
    See "Adding a notification service" on page 154.

8   Click **OK**.

9   Do any of the following:
    ■   To add additional pager numbers, repeat steps 5 through 8.
    ■   To edit an existing pager number, select it, and then click **Properties**.
    ■   To remove an existing pager number, select it, and then click **Delete**.

10 Specify notification times if desired.
    See "To specify notification times" on page 97.

11 Click **OK**.

To specify notification times

1   On the System view tab, in the left pane, click **Users**.

2   In the right pane, select the user that you want to edit.

3   On the Selection menu, click **Properties**.

4   In the User Properties dialog box, on the Notifications tab, select an email
    address or a pager number.

5   Using the Day controls, deselect days when the contact method cannot be
    used to contact the user.

6   Using the From and To controls, specify the range of time when the contact
    method can be used.

7   Click **OK**.

About alert notifications that are sent to users

When a user is notified of an alert, the information the user receives depends on whether the notification method is email, short email, or pager.

If the notification method for the user is email, the user receives a long alert message in the following format:

```
From: <SESA@SESA.cc>
To: "BWT" <sesa-bwt@sesa.cc>
Sent: Monday, August 05, 2002 9:25 AM
Subject: SESA Alert: Example Alert (This is the alert configuration
name)

Description: This is the Alert Description (only shows in the long
alert)

Severity: 6 - Fatal

Base Filtering:
Product: All
SW Feature: All
Event Class: All
Event: All
Category: All
Severity: All

Alert Created: August 5, 2002 9:25:04 AM PDT

Threshold Required: 1 event
Events Detected: 1 event

Alert Correlation Machine: yourSESAmachine

Products included in this alert:

yourSecurityproduct:
```

If the notification method for the user is pager, or if you selected Send shortened email message when you specified the user's email address, the user receives a short alert message in the following format:

```
From: <SESA@SESA.cc>
To: "BWT" <sesa-bwt@sesa.cc>
Sent: Monday, August 05, 2002 9:25 AM
Subject: SESA Alert: Example Alert (This is the alert configuration
name)

Severity: 6 - Fatal

Alert Created: August 5, 2002 9:25:04 AM PDT

Threshold Required: 1 event
Events Detected: 1 event
```

Modifying user permissions

When you create a role, permissions are assigned for each user with regard to that role. These permissions control whether role members who log on to the Symantec management console can view, modify, or delete the user.

You can modify these permissions in two ways:

- By displaying and editing the roles that contains the permissions.
  See "Modifying permissions in roles" on page 80.

- By displaying the Permissions dialog for the User container object or an individual user.
  See "Modifying permissions from the Permissions dialog box" on page 158.

Note: To modify permissions, you must be logged on as a member of the Domain Administrator role.

Deleting a user

You can delete users who are no longer administrators of your security network or who no longer receive alert notifications.

To delete a user

1   In the Symantec management console, on the System view tab, in the left pane, click **Users**.

2   In the right pane, select the user that you want to delete.

3   On the Selection menu, click **Delete**.

4   When asked to confirm the deletion, select one of the following:

- Yes: Delete the user from the SESA Directory.
  The user is removed from the list of users in the right pane.

- No: The user is not deleted.

Managing organizational units

Organizational units are the primary way that you can structure your security environment. Before you create organizational units, it is important that you understand your security network and create a security plan.

See the *Symantec Enterprise Security Architecture Implementation Guide* for planning and implementation suggestions.

Organizational units let you group the computers and appliances that you manage. You can then add configurations for the software features installed on those computers. This enables the distribution of the configurations to all computers and appliances in the organizational unit.

See "Organizational units" on page 24.

On the System view tab, when you select Organizational Units, the Selection menu and toolbar provide options for the following tasks:

■   Creating a new organizational unit

■   Editing organizational unit properties

■   Modifying organizational unit permissions

■   Deleting an organizational unit

■   Distributing configurations by way of an organizational unit

■   Deploying and removing SESA Manager extensions

■   Refreshing the hierarchy of organizational units
     See "Refreshing the Symantec management console" on page 47.

In addition, when you select Organizational Units, you can use the options on the View menu to monitor the heartbeat and failover status of services on the computers in the organizational unit.

See "Monitoring computers" on page 134.

Creating a new organizational unit

Organizational units are logical groupings. You can create them to organize computers that are physically co-located or belong to structural groups within your corporation, such as divisions or task groups. However, it is not required that an organizational unit reflect these relationships.

You can create all the organizational units that you require at a single level, or you can create a hierarchy of nested organizational units.

Note: The combined maximum length of the distinguished name of an organizational unit should be no longer than 170 bytes. Keep in mind that some characters, such as accented characters or Japanese characters take more space to store.

Since the distinguished name of an organizational unit is a concatenation of the names above it in the hierarchy, nesting organizational units with long names can exceed this limit. A screen message informs you if you exceed the limit.

To create an organizational unit

1   In the Symantec management console, on the System view tab, in the left
    pane, do one of the following:

    ■   To create a new organizational unit at the top level of the tree, select
        Organizational Units, and then, on the Selection menu, click **New**.

    ■   To create a new organizational unit within an existing organizational
        unit, expand the organizational unit tree to the desired level, and then
        on the Selection menu, click **New**.
        In the Computer or Organizational Unit dialog box, click
        Organizational Unit, and then click **OK**.

2   In the first panel of the Create a new Organizational Unit Wizard, click **Next**.

3   In the General panel, do the following:

    ■   In the Organizational Unit name text box, type a name for the
        organizational unit.

    ■   In the Description text box, type a description of the organizational
        unit.
        The description is optional.

4   Click **Next**.

5   In the Configurations panel, do one of the following:

    ■   To add configurations now, click **Add**. When you are finished, click
        Next.

    ■   Click **Next**.
        You can add configurations later by editing the organizational unit's
        properties.

    See "Adding configurations of product software features to an
    organizational unit" on page 102.

6   In the Organizational Unit Summary panel, review the information that you
    have specified, and then do one of the following:

    ■   To make changes, click **Back**.

    ■   To create the organizational unit, click **Finish**.
        The Task/Status list at the bottom of the panel scrolls up to show the
        organizational unit properties that are being created. A green check
        mark indicates success.
        When the organizational unit is created, the Cancel button changes to a
        Close button.

7   Click **Close**.
    The new organizational unit is added to the hierarchy of organizational
    units in the left pane.

Editing organizational unit properties

You can edit an existing organizational unit to change the configurations that are associated with it.

To edit organizational unit properties

1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit that you want to edit.

2   On the Selection menu, click **Properties**.

3   In the Organizational Unit Properties dialog box, on the General tab, change the description if desired.

4   On the Configurations tab, do any of the following:

■   To add configurations of product software features, click **Add**.
    See "Adding configurations of product software features to an organizational unit" on page 102.

■   To remove a configuration, select it, and then click **Remove**.

■   To view the properties of a configuration, select it, and then click **Properties**.
    See "Editing a configuration's settings" on page 165.

5   When you have completed your edits, click **OK**.

Adding configurations of product software features to an organizational unit

The behavior of security products is controlled by the configurations of the product's software features.

To distribute a configuration using an organizational unit, you associate the configuration with an organizational unit when you create the organizational unit or by editing the organizational unit's properties. You can then distribute the configuration, either immediately or at a later date.

To add configurations of product software features

1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit that you want to edit.

2   On the Selection menu, click **Properties**.

3　In the Organizational Unit Properties dialog box, on the Configurations tab, click **Add**.

4　In the Find Configurations dialog box, in the Look-in drop-down list, select the product whose configurations you want to associate with the organizational unit.
The configurations for the software feature are displayed in the Available configurations list.

5　In the Available configurations list, select a configuration.
You can only select one configuration at a time.

6　Click **Add**.
The selected configuration is listed in the Selected configuration list.
If the computer already contains a configuration for the selected software feature, and you now select a different configuration, the newly selected configuration takes precedence.

7　To select a configuration for another software feature of the same product or to select configurations for software features of another product, repeat steps 4 through 7.

8　Click **OK**.

9   In the Organizational Unit Properties dialog box, do any of the following:

- ■   To remove a configuration, select it, and then click **Remove**.

- ■   To view a configuration's properties, select it, and then click
Properties.

See "Editing a configuration's settings" on page 165.

10   Click **OK**.

Modifying organizational unit permissions

When you create a role, permissions are assigned for each organizational unit
with regard to that role. These permissions control whether role members who
log on to the Symantec management console can view, modify, or delete the
organizational unit.

You can modify these permissions in two ways:

- ■   By displaying and editing the roles that contains the permissions.
See "Modifying permissions in roles" on page 80.

- ■   By displaying the Permissions dialog for the Organizational Unit container
object or an individual organizational unit.
See "Modifying permissions from the Permissions dialog box" on page 158.

Note: To modify permissions, you must be logged on as a member of the Domain
Administrator role.

Deleting an organizational unit

The Symantec management console does not let you delete an organizational
unit until you move or delete all computers that belong to it, or to any
organizational units below it in the navigational structure.

See "Moving a computer to a different organizational units" on page 131 and
"Deleting a computer from an organizational unit" on page 133.

When you delete an organizational unit, all organizational units that are below
it in the navigational structure are also deleted.

To delete an organizational unit

1   In the Symantec management console, on the System view tab, in the left
pane, expand the Organizational Units navigation tree until you can select
the organizational unit that you want to delete.

2 On the Selection menu, click **Delete**.

If the Delete option is greyed out, there are computers in the organizational unit or in an organizational unit that is below it. Do the following:

- Navigate to the organizational unit that contains the computers.
- Delete the computers.
- To refresh the Organizational Unit node, from the Selection menu, click **Refresh**.
- Return to the organizational unit that you want to delete.

3 When you are prompted to delete the organizational unit and all its sub-groups, select one of the following.

- Yes: Delete the organizational unit from the SESA Directory.
  The organizational unit and organizational units below it in the hierarchy are removed from the navigation tree.
- No: Do not delete the organizational unit.

Distributing configurations by way of an organizational unit

You can use an organizational unit to distribute the configurations that are associated with the organizational unit to computers.

The Distribute option sends a message to the computers in the organizational unit to check for new configurations. When a computer receives this message, it contacts the SESA Manager to request a download of the configurations.

Note: The timing of configuration distribution varies depending on the amount of traffic on the SESA Manager.

See "Product configuration distribution" on page 26.

To distribute configurations by way of an organizational unit

1 In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit to which you want to distribute configurations.

2 On the Selection menu, click **Distribute**.

3 When you are prompted to distribute the configuration, select one of the following.

- Yes: Distribute the configuration.
  A message is sent to the computers in the organizational unit, informing them to contact the SESA Manager for a new configuration.
- No: Do not distribute the configuration.

Deploying and removing SESA Manager extensions

Products that are managed by SESA provide product-specific SESA Manager extensions to SESA functions.

To facilitate the distribution of SESA Manager extensions to other SESA Managers in the domain, SESA provides the Deploy/Remove SESA Manager Extensions Wizard. This wizard lets you install the SESA Manager extensions and relays that are necessary to access the integrated product from another SESA Manager.

Deploying SESA Manager extensions

After you install a product, use the Deploy/Remove SESA Manager Extensions Wizard to deploy the product's SESA Manager extensions to one or more SESA Managers.

Note: For products that have editable configurations, you can only edit the configurations when you are connected to SESA Managers to which the product has been deployed.

To deploy SESA Manager extensions

1   In the Symantec management console, on the System view tab, in the left pane, select Organizational Units.

2   On the Selection menu, click **Deploy/Remove SESA Manager Extensions**.

3   In the first panel of the Deploy/Remove SESA Manager Extensions Wizard, click **Next**.

4   In the SESA Manager Extension Action panel, click **Deploy SESA Manager extensions**.

5   Click **Next**.

6   The Select SESA Manager Extensions panel lists the SESA integration packages (SIPs) for which SESA Manager extensions will be deployed. Do one of the following:

   ■   If the list contains a package that you do not want to deploy, select it, and then click **Remove**.

   ■   To deploy all of the listed SESA Manager extensions, click **Next**. Continue at step 11.

■ If the list does not contain all the packages that you want to deploy, click, click **Add**.

7 In the Find SESA Packages dialog box, in the Available packages list, select one or more packages.

8 Click **Add**.
The packages are added to the Selected packages list.

9 Click **OK**.

10 In the Select SESA Manager Extensions panel, click **Next**.

11 The Select SESA Manager Computers panel lists the SESA Managers to which the SESA Manager extensions will be added.
Do one or more of the following:

■ If the list contains a SESA Manager to which you do not want to deploy SESA Manager extensions, select it, and then click **Remove**.
The SESA Manager is removed from the list.

■ To add SESA Manager extensions to all of the listed SESA Managers, click **Next**.
Continue at step 16.

■ If the list does not contain a SESA Manager to which you want to deploy SESA Manager extensions, click **Add**.

12 In the Find Computers dialog box, do one of the following:

■ To proceed without modifying the Available computers list, select one or more computers, and then continue at step 13.

The Available computers list shows all SESA Managers for the domain, up to the number of computers indicated by the Maximum search count text box.

■ To modify the Available computers list by specifying search criteria, do the following:

Look in	Identifies the domain. You cannot change this value.
Computer name	Type a computer name.
	You can specify a partial computer name that contains one or more asterisks. For example: *dev*
	All computers with names that contain this string are returned.
SESA Managers only	This check box is checked by default and cannot be changed. You can only deploy SESA Manager extensions to SESA Managers.

Maximum search count	Type a number to reduce or increase the number of computers that are returned by the search.
Start search.	Click here to start the search.
	The Available computers list is revised based on the search criteria.
Stop search.	Click here to stop the search before it is complete.

In the revised Available computers list, select one or more computers.

13 Click **Add**.
The computers are added to the Selected Computers list.

14 Click **OK**.

15 In the Select SESA Manager Computers panel, click **Next**.

16 In the Schedule Deployment/Removal panel, select when the SESA Manager extensions should be deployed, and when the Web service should be restarted.
Check the options as follows:

Deploy/remove SESA Manager extensions now	■ To deploy SESA Manager extensions immediately, check the check box.
	■ To deploy SESA Manager extensions using the schedule configured on the SESA Manager, leave the check box unchecked. For instructions on scheduling deployment, see "Modifying Product Installation Service configurations" on page 223.
Restart the Web server after completing the wizard	■ To restart the Web server immediately, check the check box.
	■ To restart the Web server using the schedule configured on the SESA Manager, leave the check box unchecked. For instructions on scheduling Web restart, see "Modifying Product Installation Service configurations" on page 223.

17 Click **Next**.

18 In the SESA Manager Extensions Deployment/Removal Summary panel, review the information that you have specified. Then do one of the following:

■ To make changes, click **Back**.

■ To deploy the SESA Manager extensions, click **Finish**.
The Task/Status list at the bottom of the panel scrolls up to show the progress of the deployment. A green check mark indicates success. When the deployment action is complete, the Cancel button changes to a Close button.

19 Click **Close**.

Removing SESA Manager extensions from SESA Managers

When the SESA Manager extensions for a product are no longer needed on a SESA Manager, you can remove them. You can remove SESA Manager extensions in two ways:

■ Run the Deploy/Remove SESA Manager Extensions Wizard.
This lets you remove the extensions from several SESA Managers at one time.

■ Remove the package that represents the SESA Manager extensions from a single SESA Manager computer by using the Packages tab of the Computer Properties dialog box.
See "Removing deployed SESA Manager extensions from a SESA Manager" on page 130.

To remove SESA Manager extensions

1 In the Symantec management console, on the System view tab, in the left pane, select Organizational Units.

2 On the Selection menu, click **Deploy/Remove SESA Manager Extensions**.

3 In the first panel of the Deploy/Remove SESA Manager Extensions Wizard, click **Next**.

4 In the SESA Manager Extension Action panel, click **Remove SESA Manager extensions**.

5 Click **Next**.

6 The Select SESA Manager Extensions panel lists the SESA integration packages (SIPs) for which SESA Manager extensions will be removed. Do one of the following:

- If the list contains a package that you do not want to remove, select it, and then click **Remove**.
  The package is removed from the list, which means that it will not be removed from the SESA Managers to which it has been deployed.

- To remove all of the listed SESA Manager extensions, click **Next**. Continue at step 11.

- If the list does not contain all the packages that you want to remove, click **Add**.

7 In the Find SESA Packages dialog box, in the Available packages list, select one or more packages.

8 Click **Add**.
The packages are added to the Selected packages list.

9 Click **OK**.

10 In the Select SESA Manager Extensions panel, click **Next**.

11 The Select SESA Manager Computers panel lists the SESA Managers from which the SESA Manager extensions will be removed.

Do one or more of the following:

■ If the list contains a SESA Manager from which you do not want to remove SESA Manager extensions, select it, and then click **Remove**. The SESA Manager is removed from the list.

■ To remove SESA Manager extensions from all of the listed SESA Managers, click **Next**.
Continue at step 16.

■ If the list does not contain a SESA Manager from which you want to remove SESA Manager extensions, click **Add**.

12 In the Find Computers dialog box, do one of the following:

■ To proceed without modifying the Available computers list, select one or more computers, and then continue at step 13.
The Available computers list shows all SESA Managers for the domain, up to the number of computers indicated by the Maximum search count text box.

■ To modify the Available computers list by specifying search criteria, do the following:

Look in	Identifies the domain. You cannot change this value.
Computer name	Type a computer name.
	You can specify a partial computer name that contains one or more asterisks. For example: *dev*
	All computers with names that contain this string are returned.
SESA Managers only	This check box is checked by default and cannot be changed. You can only deploy SESA Manager extensions to SESA Managers.
Maximum search count	Type a number to reduce or increase the number of computers that are returned by the search.
Start search.	Click here to start the search.
	The Available computers list is revised based on the search criteria.
Stop search.	Click here to stop the search before it is complete.

In the revised Available computers list, select one or more computers.

13 Click **Add**.
The computers are added to the Selected Computers list.

14 Click **OK**.

15 In the Select SESA Manager Computers panel, click **Next**.

16 In the Schedule Deployment/Removal panel, select when the SESA Manager extensions should be removed, and when the Web service should be restarted.
Check the options as follows:

Deploy/remove SESA Manager extensions now	■ To remove SESA Manager extensions immediately, check the check box.
	■ To remove SESA Manager extensions using the schedule configured on the SESA Manager, leave the check box unchecked. For instructions on scheduling deployment, see "Modifying Product Installation Service configurations" on page 223.

Restart the Web
server after
completing the
wizard

- To restart the Web server immediately, check the check box.
- To restart the Web server using the schedule configured on the SESA Manager, leave the check box unchecked. For instructions on scheduling Web restart, see "Modifying Product Installation Service configurations" on page 223.

17 Click **Next**.

18 In the SESA Manager Extensions Deployment/Removal Summary panel, review the information that you have specified. Then do one of the following:

- To make changes, click **Back**.
- To remove the SESA Manager extensions, click **Finish**.
  The Task/Status list at the bottom of the panel scrolls up to show the progress of the removal. A green check mark indicates success. When the removal is complete, the Cancel button changes to a Close button.

19 Click **Close**.

Managing computers within organizational units

Organizational units contain computer objects that represent the computers that run your security products.

Note: The term computer covers a variety of equipment, from traditional desktop computers, to appliances and handheld devices. In the context of the Symantec management console, a computer is any machine that you manage as part of your enterprise security environment.

Computers are placed in organizational units in two ways:

- When a SESA Agent is installed.
  When you install a SESA-enabled security product, or when you connect a computer with a SESA-enabled security product to SESA, a SESA Agent is installed on the computer. It is represented in the Symantec management console as a computer within an organizational unit.
  In some cases, you can specify the organizational unit for the computer when the SESA Agent is installed.

If an organizational unit is not specified, the computer is placed in the Default organizational unit.

See the *Symantec Enterprise Security Architecture Implementation Guide.*

■ When you can create the computer using the Create a new Computer wizard. You can create computers using this method for security products that do not install SESA Agents.

When you select a computer in the right pane, the Selection menu and toolbar provide options for the following tasks:

■ Creating computers within organizational units

■ Editing computer properties

■ Distributing a configuration to selected computers in an organizational unit

■ Moving a computer to a different organizational units

■ Modifying computer permissions

■ Deleting a computer from an organizational unit

■ Refreshing the computer name list
See "Refreshing the Symantec management console" on page 47.

In addition, when you select Organizational Units, you can use the options on the View menu to monitor the heartbeat and failover status of services on the computers in the organizational unit.

See "Monitoring computers" on page 134.

Creating computers within organizational units

Computers are defined in the SESA Directory as part of the organizational unit in which they are created. If you delete a computer from an organizational unit, it is permanently removed from the SESA Directory.

Note: Do not create a computer using the wizard if a SESA Agent will be installed on the computer at a later time. Installation of a SESA Agent on a computer created using the wizard results in duplicate instances of the computer in the SESA Directory.

A computer can only belong to one organizational unit at a time; however, depending on the requirements of your security products, you can easily move computers from one organizational unit to another.

See "Moving a computer to a different organizational units" on page 131.

To create a computer within an organizational unit

1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit to which you want to add a computer.

2   On the Selection menu, click **New**.

3   In the Computer or Organizational Unit dialog box, click **Computer**.

4   In the first panel of the Create a new Computer Wizard, click **Next**.

5   In the General panel, do the following:

   ■   In the Computer name text box, type the computer name.

   ■   In the Description text box, type a description.
       The description is optional.

6   Click **Next**.

7   In the Information panel, do one of the following:

   ■   Type information in some or all of the optional text boxes, and then click **Next**.

   ■   Click **Next**.
       You can supply the information later by editing the computer's properties.
       Online Help on the Computer Properties dialog box provides text box descriptions.

   See "Editing computer properties" on page 118.

8   Click **Next**.

9   In the Identification panel, do one of the following:

- Provide the host name, IP addresses, and MAC addresses of the computer now, and then click **Next**.

- Click **Next**.
  You can provide the identification information later by editing the computer's properties.

See "Providing identification information for a computer" on page 121.

10   In the Configurations panel, do one of the following:

- To directly associate configurations of product software features with the computer now, click **Add**. When you are finished, click **Next**.

- Click **Next**.
  You can add configurations later by editing the computer's properties.

See "Associating configurations of product software features directly with a computer" on page 122.

11   In the Configuration groups panel, do one of the following:

- To make the computer a member of a configuration group now, click **Add**. When you are finished, click **Next**.

- Click **Next**.
  You can add the computer to a configuration group later by editing the computer's properties.

See "Making a computer a member of a configuration group" on page 124.

12 In the Computer summary panel, review the information that you have specified. Then do one of the following:

- To make changes, click **Back**.

- To create the computer, click **Finish**.
  The Task/Status list at the bottom of the panel scrolls up to show the computer properties that are being created. A green check mark indicates success.
  When the computer is created, the Cancel button changes to a Close button.

13 Click **Close**.
  The new computer is added to the list of computers in the right pane.

Editing computer properties

Whether a computer has a SESA Agent installed determines what you can view and change when you edit the computer's properties.

- When a computer has a SESA Agent installed, you cannot change the identification information for the computer.
  However, you can specify configurations and configuration groups to be associated with the computer and view the services that are running on the computer.
  See "Editing a computer with a SESA Agent" on page 118 and "Viewing the services running on a computer" on page 125.

- If a computer does not have a SESA Agent, you can edit the network identification information for the computer.
  Without a SESA Agent, you cannot view services that are running on the computer.
  See "Editing a computer that does not have a SESA Agent" on page 120 and "Providing identification information for a computer" on page 121.

Editing a computer with a SESA Agent

When a computer has a SESA Agent installed, much of the identification information about the computer is captured as a result of the installation of the SESA Agent. You can only modify a few text boxes.

On the other hand, you can learn a lot about the computer by viewing information that is provided by the SESA Agent, such as the state of services that are running on the computer, and the computer's heartbeat status.

You can also specify configurations and configuration groups to be associated with the computer, and, if the computer is a SESA Manager, add access to other domains.

To edit a computer with a SESA Agent

1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit containing the computer that you want to edit.

2   In the right pane, select the computer.

3   On the Selection menu, click **Properties**.

4   In the Computer Properties dialog box, on the General tab, type a new description if desired.

5   On the Information tab, you can modify the Primary Owner and Owner contact information text boxes.
    The rest of the information is supplied by the SESA Agent installation. You can view this information but you cannot edit it.

6   On the Identification tab, view the host name, IP addresses, and MAC addresses of the computer. You cannot change this information.

7   On the Configurations tab, do any of the following:

    ■   To directly associate configurations of product software features with the computer, click **Add**.
        See "Associating configurations of product software features directly with a computer" on page 122.

    ■   To remove a configuration, select it, and then click **Remove**.

    ■   To view a configuration's properties, select it, and then click **Properties**.
        See "Editing a configuration's settings" on page 165.

8   On the Configuration group tab, do any of the following:

    ■   To make the computer a member of a configuration group, click **Add**.
        See "Making a computer a member of a configuration group" on page 124.

    ■   To remove the computer from configuration group membership, select the configuration group, and then click **Remove**.

    ■   To view a configuration group's properties, select it, and then click **Properties**.
        See "Editing configuration group properties" on page 140.

9   On the Services tab, view information about the services that are running on the computer.
    See "Viewing the services running on a computer" on page 125.

10 On the Heartbeat Monitor tab, view the heartbeat status of the services that are running on the computer.
    See "Checking the heartbeat of services on a computer" on page 127.

11 Two additional tabs are available if the computer is a SESA Manager and you are logged on to the Symantec management console as a member of the Domain Administrator role:

    ■   On the Domain Access tab, you can add or remove domain access for the SESA Manager.
        See "Adding domain access to a SESA Manager" on page 128.

    ■   On the Packages tab, you can remove SESA Packages that have been deployed to the SESA Manager.
        See "Removing deployed SESA Manager extensions from a SESA Manager" on page 130.

12 Click **OK**.

Editing a computer that does not have a SESA Agent

When you create a computer using the Create a New Computer Wizard, most of the information for the computer can be modified.

To edit the properties of a computer that does not have a SESA Agent

1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit containing the computer that you want to edit.

2   In the right pane, select the computer.

3   On the Selection menu, click **Properties**.

4   In the Computer Properties dialog box, on the General tab, type a new description if desired.

5   On the Information tab, you can modify all text boxes except the Installation date text box, which is only applicable when a SESA Agent is installed.
    To enable the Other OS text box, from the Operating system type text box, select Other.

6   On the Identification tab, you can change the host name, and add or remove IP addresses and MAC addresses.
    See "Providing identification information for a computer" on page 121.

7   On the Configurations tab, do any of the following:

- To directly associate configurations of product software features with the computer, click **Add**.
  See "Associating configurations of product software features directly with a computer" on page 122.

- To remove a configuration, select it, and then click **Remove**.

- To view a configuration's properties, select it, and then click **Properties**.
  See "Editing a configuration's settings" on page 165.

8   On the Configuration Group tab, do any of the following:

- To make the computer a member of a configuration group, click **Add**.
  See "Making a computer a member of a configuration group" on page 124.

- To remove the computer from configuration group membership, select the configuration group, and then click **Remove**.

- To view a configuration group's properties, select it, and then click **Properties**.
  See "Editing configuration group properties" on page 140.

You cannot view any information on the Services tab. Services are only reported if a SESA Agent is installed on the computer.

9   Click **OK**.

Providing identification information for a computer

After you create a computer using the Create a new Computer Wizard, you can provide the network identification information for the computer by editing its properties.

When you create a computer by installing a SESA-enabled product, the identification information is supplied automatically by the installation and cannot be changed by editing the computer's properties.

To provide identification information for a computer
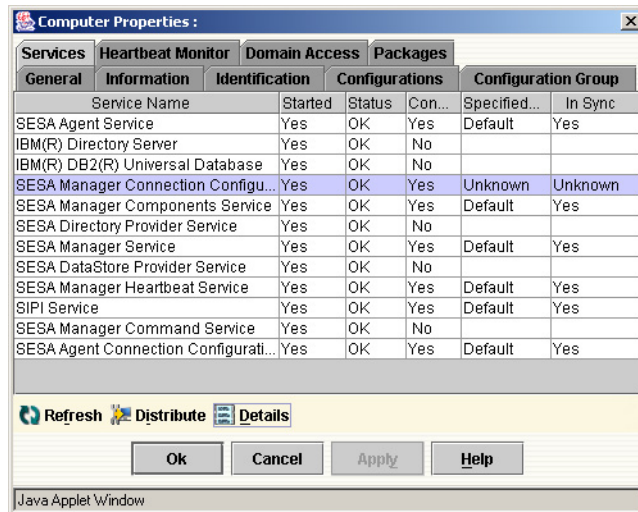
1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit containing the computer that you want to edit.

2   In the right pane, select the computer.

3   On the Selection menu, click **Properties**.

4   In the Computer Properties dialog box, on the Identification tab, in the Host text box, type a fully qualified domain name or DNS hostname.

5   Under IP addresses, to add an IP address, click **Add**.

6   In the IP addresses dialog box, in the Enter a valid IP address text box, type an IP address for the computer, and then click **OK**.

7   If the computer has multiple network interface cards, repeat steps 5 and 6 for each IP address.

8   Under MAC Addresses, to add a MAC address, click **Add**.

9   In the MAC addresses dialog box, in the Enter a valid MAC address text box, type the MAC addresses of the computer, and then click **OK**.
The MAC address must consist of six hexidecimal pairs.

10   If the computer has multiple network interface cards, repeat steps 8 and 9 for each MAC address.

11   Click **OK**.

Associating configurations of product software features directly with a computer

The behavior of security products is controlled by the configurations of the product's software features.

To distribute configurations, you can associate a configuration with a computer when you create the computer or by editing the computer's properties. You can then distribute the configuration, either immediately or at a later date, depending on your needs.

Associating configurations directly with a computer supersedes any associations that you have made with the organizational unit of which the computer is a part.

To associate configurations of product software features directly with the computer
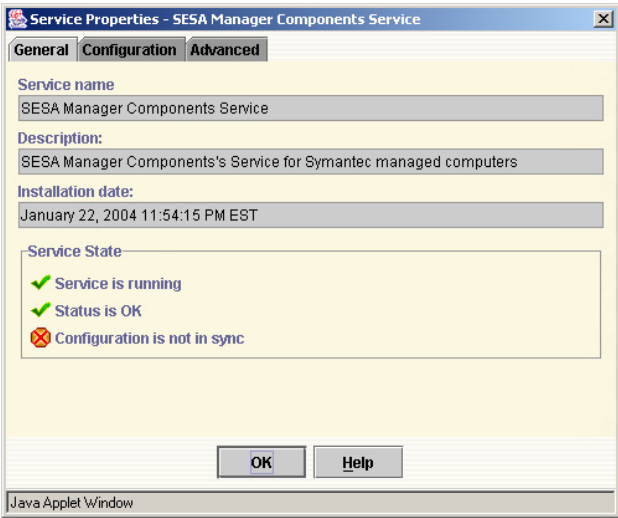
1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit that contains the computer that you want to edit.

2   In the right pane, select the computer.

3   On the Selection menu, click **Properties**.

4   In the Organizational Unit Properties dialog box, on the Configurations tab, click **Add**.

5   In the Find Configurations dialog box, in the Look in drop-down list, select a product/software feature combination.

6   In the Available Configurations list, select a configuration.
     You can only select one configuration at a time.
     If the computer already contains a configuration for the selected software feature, and you now select a different configuration, the newly selected configuration takes precedence.

7   Click **Add**.

8   Click **OK**.

9   To select a configuration for another software feature of the same product or to select configurations for software features of another product, repeat steps 5 through 8.

10   On the Configurations tab, do any of the following:
     ■   To remove a configuration, select it, and then click **Remove**.
     ■   To view a configuration's properties, select it, and then click **Properties**.
          See "Editing a configuration's settings" on page 165.

11   Click **OK**.

Making a computer a member of a configuration group

In addition to belonging to an organizational unit, a computer can be a member of a configuration group. Configuration groups are used to distribute special configurations to their member computers. A computer can only belong to one configuration group.

See "Managing configuration groups" on page 138..

To make a computer a member of a configuration group

1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigational tree until you can select the organizational unit containing the computer that you want to edit.

2   In the right pane, select the computer.

3   On the Selection menu, click **Properties**.

4   In the Computer Properties dialog box, on the Configuration Groups tab, click **Add**.

5   In the Available Configuration Groups list, select a configuration group. You can only make a computer a member of one configuration group. If the computer is already a member of a configuration group, the configuration group you select here replaces the original configuration group.

6   Click **Add**.

7   Click **OK**.

8   On the Configuration Groups tab, you can also do any of the following:

   ■   To remove a computer from configuration group membership, select the configuration group, and then click **Remove**.

   ■   To view a configuration group's properties, select it, and then click **Properties**.
       See "Editing configuration group properties" on page 140.

9   Click **OK**.

Viewing the services running on a computer

The Services tab of the Editing Computer dialog box lists the services running on the computer and provides information such as what configurations are in use, and whether the configurations are up to date.

To view the services running on a computer

1 In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit containing the computer whose services you want to view.

2 In the right pane, select the computer.

3 On the Selection menu, click **Properties**.

4 In the Computer Properties dialog box, on the Services tab, check the In Sync column to determine whether the correct configurations are being used. If the value is Unknown or No, there is a problem with the configuration.

For a description of the columns, see Help.

5   If the In Sync column indicates that a service's configuration is not in sync, to view more details about the service, select it, and then click **Details**.

The Service Properties dialog box for the selected service contains tabs that describe the service. When a service is not in sync, a red icon is displayed in the Service State section.

6   To determine why the service is not in sync, on the Configuration tab, click **Why?**

7   Review the message that appears, and then click **OK** to close it.

8   In the Service Properties dialog box, click **Close**.

9   In the Computer Properties dialog box, to notify the computer that it should
     download new configurations, click **Distribute**.

10   To refresh the Computer Properties dialog box display, click **Refresh**.

11   Click **OK**.

Checking the heartbeat of services on a computer

The heartbeat monitor provides near real-time status of the SESA services
running on a computer.

To check the heartbeat of services on a computer

1   In the Symantec management console, on the System view tab, in the left
     pane, expand the Organizational Units navigation tree until you can select
     the organizational unit containing the computer whose heartbeat status you
     want to view.

2   In the right pane, select the computer.

3   On the Selection menu, click **Properties**.

4   In the Computer Properties dialog box, on the Heartbeat Monitor tab, view
     the heartbeat status of the services running on the computer.

The services that are listed are the services that you have configured for
heartbeat monitoring using the Heartbeat tab of the Agent Configuration.
See "Configuring SESA Agent heartbeat" on page 219.

The format of the service name in the monitor is
<nnnnnnnn><swfeaturename> where <nnnnnnnn> is the ID of the
software feature and <swfeaturename> is the name of the software feature.
A computer's service status as displayed on the Heartbeat Monitor tab can
be any of the following:

✔	OK	All heartbeat tracked services are running normally.	No action required.
✖	SYSTEM_DOWN	The computer system has failed to check in on schedule.	Investigate why the system is down.
✖	SERVICES_DOWN	The computer system is checking in on schedule, but one or more services that are tracked by the heartbeat monitor are not running.	Investigate why the service is down.
⚠	UNKNOWN	The computer system is not currently known to the heartbeat monitor.	Verify that the computer is configured to be tracked by the heart beat monitor. If it is configured to be tracked, the machine may be down or unable to contact its SESA Manager.
▬▬	Heartbeat Unsupported	The service is not configured for heartbeat monitoring.	None.

5   Click **OK**, and then take the recommended action.

Adding domain access to a SESA Manager

By default, a computer has access to the domain in which it was created. If the
computer is a SESA Manager, you can give it access to more than one domain.

The following are examples of when you should grant domain access to a SESA
Manager:

■   If you create an alert configuration and add notification to users in another
domain, you must give each SESA Manager in your top domain access to
this domain so that it can do directory lookups.

■ If you monitor heartbeat for SESA Managers across domains, you must configure the SESA Managers in both the local and the remote domain to have access to each other.
This is because the master heartbeat machines in different domains contact each other to share heartbeat information across domains.

To add domain access to a SESA Manager

1 In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit containing the computer for which you want to expand domain access.

2 In the right pane, select the computer.

3 On the Selection menu, click **Properties**.

4 In the Computer Properties dialog box, on the Domain Access tab, click **Add**.

5 In the Find Domains dialog box, in the Available domains list, select one or more domains.

6 Click **Add**.
The domains are added to the Selected domains list.

7 Click **OK**.

8   On the Domain Access tab, you can also do any of the following:

■   To remove a domain, select it, and then click **Remove**.
    You cannot remove domain access to the domain the computer resides in.

■   To view a domain's properties, select it, and then click **Properties**.
    See "Editing domain properties" on page 66.

9   Click **OK**.

Removing deployed SESA Manager extensions from a SESA Manager

When a product is installed on a SESA Manager, its SESA Manager extensions can be deployed to other SESA Managers.

When SESA Manager extensions have been deployed to a computer, the product appears on the Packages tab of the Computer Properties page for the SESA Manager.

You can remove deployed SESA Manager extensions in two ways:

■   Run the Deploy/Remove SESA Manager Extensions Wizard, and selecting **Remove SESA Manager extensions**.
    This lets you remove the SESA Manager extensions from several SESA Managers at one time.
    See "Removing SESA Manager extensions from SESA Managers" on page 110.

■   Remove the SESA Manager extensions from each SESA Manager computer individually by using the Packages tab of the Computer Properties dialog box.

To remove SESA Manager extensions from a single SESA Manager

1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit containing a SESA Manager from which you want to remove SESA Manager extensions.

2   In the right pane, select the computer.

3   On the Selection menu, click **Properties**.

4   In the Computer Properties dialog box, on the Packages tab, select the SESA package you want to remove and then click **Remove**.

Distributing a configuration to selected computers in an organizational unit

You can select specific computers and use the Distribute option to notify them to contact the SESA Manager for new configurations.

To learn how computers are updated with new configurations, see "Product configuration distribution" on page 26.

When you distribute an update message by selecting a specific computer, only the selected computer is notified. The other computers in the organizational unit do not receive the update message.

To distribute a configuration to selected computers in an organizational unit

1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit that contains the computers to which you want to distribute configurations.

2   In the right pane, select only those computers that you want to notify. You can use the SHIFT or CTRL keys to select multiple computers.

3   On the Selection menu, click **Distribute**.

4   When you are prompted to distribute the configuration, select one of the following.

   ■   Yes: Distribute the configuration.
       A message is sent to the selected computers that informs them to contact the SESA Manager for a new configuration.

   ■   No: Do not distribute the configuration.

Moving a computer to a different organizational units

Although a computer can only belong to one organizational unit, you can move computers from one organizational unit to another.

Warning: Before you move a computer, make sure that moving computers is supported by the security products that you are managing.

To move a computer to a different organizational unit

1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit that contains the computer that you want to move.

2   In the right pane, select one or more computers to move.

3 On the Selection menu, click **Move**.

4 When prompted, to confirm that you want to move the computers click **OK**.

5 In the Find Organizational Units dialog box, select the organizational unit to which you want to move the computers.

6 Click **OK**.

7 To verify that the move was successful, in the left pane, select the organizational unit to which you moved the computers.
Confirm that the computers that you moved are in the list of computers in the right pane.
If the computer you move is a SESA Manager, you may have to log on again following the move.

Modifying computer permissions

When you create a role, permissions are assigned for each computer with regard to that role. These permissions control whether role members who log on to the Symantec management console can view, modify, or move the computer.

To modify the permissions for a computer, display the Permissions dialog for the computer, as described in "Modifying permissions from the Permissions dialog box" on page 158.

You cannot modify permissions for computers using the Role Properties dialog box.

Note: To modify permissions, you must be logged on as a member of the Domain Administrator role.

Deleting a computer from an organizational unit

If you want to delete an organizational unit, you must remove any computers within the organizational unit by moving them or deleting them. You may also want to delete a computer that you no longer want to have under SESA management, or a computer from which you have uninstalled all SESA-enabled security products.

Deleting a computer removes it permanently from the SESA Directory.

If the computer was created by installing a SESA Agent as part of a security product installation, you should uninstall the security product before you delete the computer. See your security product documentation.

You can re-add a computer you have uninstalled by using the manual process that is described in "Creating computers within organizational units" on page 115. You can also re-add a computer by installing a SESA-enabled security product on the computer.

To delete a computer from an organizational unit

1   In the Symantec management console, on the System view tab, in the left pane, expand the Organizational Units navigation tree until you can select the organizational unit from which you want to delete the computer.

2   In the right pane, select the computer.

3   On the Selection menu, click **Delete**.

4   When you are prompted to delete the computer, select one of the following.

   ■   Yes: Delete the computer from the SESA Directory.
       The computer is removed from the list in the right pane.

   ■   No: Do not delete the computer.

Monitoring computers

You can monitor the heartbeat and failover status of services on the computers in an organizational unit.

Three monitor options are available on the View menu:

■ Heartbeat

■ Failover

■ Monitor
This option, which can be accessed from any point in the Symantec management console, displays a monitor for all SESA Managers in the domain.
See "Monitoring SESA components" on page 44.

Monitoring heartbeat for computers

SESA's heartbeat service monitors the health of services on your computers by regularly receiving their status. The Heartbeat Monitor makes it easy for you to see computers in your organizational unit that have services whose heartbeat indicates problems.

Two factors govern whether the heartbeat of a service is reported:

■ The service is designed to report its status to the Heartbeat servlet.

■ The software feature with which the service is associated has been configured for heartbeat.
See "Configuring SESA Agent heartbeat" on page 219.

For information on configuring the Master Heartbeat service, see "Changing the Master Heartbeat service computer" on page 198.

To monitor heartbeat for your computers

1   In the Symantec management console, on the System view tab, in the left
    pane, select an organizational unit.

2   On the View menu, click **Heartbeat**.

3   In the Heartbeat Monitor view, use the icons in the Machine status field at
    the top of the dialog box to identify computers that have problems:

    Status is being checked for the computer.

    Status of all services on the computer is OK.

    Status of one or more services on the computer is bad.

    Status of one or more services on the computer is unknown.

    Heartbeat unsupported–The service is not configured for heartbeat
    monitoring.

4   To view the heartbeat status of services on a specific computer, select the
    computer in the top list.
    The services that are listed in the lower section of the dialog box are the
    services that you have configured for heartbeat monitoring.

The format of the service name in the monitor is
<nnnnnnnn><swfeaturename> where <nnnnnnnn> is the ID of the
software feature and <swfeaturename> is the name of the software feature.
A service status can be any of the following:

	OK	All heartbeat tracked services are running normally.	No action required.
	SYSTEM_DOWN	The computer system has failed to check in on schedule.	Investigate why the system is down.
	SERVICES_DOWN	The computer system is checking in on schedule, but one or more services that are tracked by the heartbeat monitor are not running.	Investigate why the service is down.
	UNKNOWN	The computer system is not currently known to the heartbeat monitor.	Verify that the computer is configured to be tracked by the heart beat monitor.
			If it is configured to be tracked, the machine may be down or unable to contact its SESA Manager.
	N/A	The computer system is not configured for heartbeat monitoring.	No action required.

5   To view the properties of the selected computer, click the Properties button
at the top of the Heartbeat Monitor window.

6   Click **Close**.

Monitoring failover for your SESA Managers

Failover status is reported for configured services for the SESA Managers in
your organizational unit.

See "Configuring SESA Agent to SESA Manager failover" on page 211.

To monitor failover for your SESA Managers

1   In the Symantec management console, on the System view tab, in the left
     pane, select an organizational unit.

2   On the View menu, click **Failover**.

3   In the Failover Monitor View, use the icons in the Failover status field at the
     top of the dialog box to identify computers that have problems:

     ⧗   Failover status is being checked for the computer.

     ✔   No services have failed over on the computer.

     ✖   One or more services on the computer have failed over.

     ⚠   The failover status of one or more services on the computer is
          unknown.

     ▭▭   Not Applicable–The computer is not configured for failover.

4   To view the failover status of configured services on a specific computer,
     select the computer in the top list.
     The services that are being monitored are listed in the lower half of the
     dialog box.

The format of the service name in the monitor is
<nnnnnnnn><swfeaturename> where <nnnnnnnn> is the ID of the
software feature and <swfeaturename> is the name of the software feature.
A service status can be any of the following:

✔	OK	The service is not in a failed over state.	No action required.
✖	Failed Over	The service has failed over, as described in the Result field.	Investigate why the service is down.
⚠	Status Unknown	The failover status cannot be detected.	Investigate why the failover status is not being reported.
▬▬	NA (Not applicable)	The service is not configured for failover. This is always the case for computer systems that are not SESA Managers.	No action required.

5   To view the properties of the selected computer, click the Properties button
at the top of the Failover Monitor dialog box.

6   Click **Close**.

Managing configuration groups

Configuration groups let you set up special cases for the distribution of
configurations.

For example, you may create organizational units that are based on your
departments. You use these organizational units to distribute configurations of
security products that are common to each department.

However, some of your infrastructure, such as Web or mail servers may span
these organizational groups. To distribute configurations to these computers,
you can associate the configurations and computers in a configuration group.

When you select a configuration group, the Selection menu and toolbar provide
options for the following:

■   Creating a configuration group

■   Editing configuration group properties

■ Distributing a configuration by way of a configuration group

■ Modifying configuration group permissions

■ Deleting a configuration group

■ Refreshing the configuration group list
See "Refreshing the Symantec management console" on page 47.

Creating a configuration group

You create a configuration group to distribute security product configurations when your computers need different configurations than the ones that are distributed through an organizational unit.

To create a configuration group

1   In the Symantec management console, on the System view tab, in the left pane, click **Configuration Groups**.

2   On the Selection menu, click **New**.

3   In the first panel of the Create a new Configuration Group Wizard, click **Next**.

4   In the General panel, do the following:

■ In the Configuration Group name text box, type the Configuration Group Name.

■ In the Description text box, type a description.
The description is optional.

5   Click **Next**.

6   In the Computers panel, do one of the following:

■ To add computers now, click **Add**. When you are finished, click **Next**.

■ Click **Next**.
You can add computers later by editing the configuration group's properties.
See "Editing configuration group properties" on page 140.

7   In the Configurations panel, do one of the following:

■ To add configurations now, click **Add.** When you are finished, click **Next**.

■ Click **Next**.
You can add configurations later by editing the configuration group's properties.
See "Editing configuration group properties" on page 140.

8 In the Configuration Group Summary panel, review the information that you have specified. Then do one of the following:

- ■ To make changes, click **Back**.

- ■ To create the configuration group, click **Finish**.
  The Task/Status list at the bottom of the panel scrolls up to show the configuration group properties that are being created. A green check mark indicates success.
  When the configuration group is created, the Cancel button changes to a Close button.

9 Click **Close**.
The new configuration group is added to the list of configuration groups in the right pane.

Editing configuration group properties

You can edit an existing configuration group to change the configurations and computers that are associated with it.

Edit configuration group properties

Edit a configuration group to:

- ■ Add or remove computers

- ■ Add or remove configurations

To add or remove computers

1 In the Symantec management console, on the System view tab, in the left pane, click **Configuration Groups**.

2 Select the configuration group that you want to edit.

3 On the Selection menu, click **Properties**.

4 In the Configuration Group Properties dialog box, on the Computers tab, to add a computer, click **Add**.

5 In the Find Computers dialog box, do one of the following:

■ To proceed without modifying the Available computers list, select one or more computers, and then continue at step 6.
The Available computers list shows all computers for the domain, up to the number of computers indicated by the Maximum search count text box.

■ To modify the Available computers list by specifying search criteria, do the following:

Look in	Identifies the domain. You cannot change this value.
Computer name	Type a computer name.
	You can specify a partial computer name that contains one or more asterisks. For example: *dev*
	All computers with names that contain this string are returned.
SESA Managers only	Check to limit the search to SESA Managers.

Maximum search count	Type a number to reduce or increase the number of computers that are returned by the search.
Start search.	Click here to start the search.
	The Available computers list is revised based on the search criteria.
Stop search.	Click here to stop the search before it is complete.

In the revised Available computers list, select one or more computers.

6 Click **Add**.

The computers are added to the Selected Computers list.

7 Click **OK**.

8 On the Computers tab, you can also do either of the following:

- To remove a computer, select it, and then click **Remove**.
- To edit a computer's properties, select it, and then click **Properties**. See "Editing computer properties" on page 118.

9 Click **OK**.

To add or remove a configuration

1 On the System view tab, in the left pane, click **Configuration Groups**.

2 Select the configuration group that you want to edit.

3 On the Selection menu, click **Properties**.

4   In the Configuration Group Properties dialog box, on the Configurations tab, to add a configuration, click **Add**.

5   In the Find Configurations dialog box, in the Look In drop-down list, select a product/software feature combination.

6   In the Available Configurations list, select the configuration you want to associate with this configuration group.

7   Click **Add**.
     The configuration is added to the Selected Configurations list.

8   To select a configuration for another product/software feature combination, repeat steps 5 through 7.

9   When you have completed adding configurations, click **OK**.
     The configurations in the Selected Configurations list are added to the organizational unit.
     If the organizational unit already contains a configuration for the selected software feature, and you now select a different configuration, the newly selected configuration takes precedence.

10   On the Configurations tab, you can also do either of the following:

     ■   To remove a configuration, select it, and then click **Remove**.

     ■   To view a configuration's properties, select it, and then click **Properties**.
         See "Editing a configuration's settings" on page 165.

11   Click **OK**.

Modifying configuration group permissions

When you create a role, permissions are assigned for each configuration group with regard to that role. These permissions control whether role members who log on to the Symantec management console can view, modify, or delete the configuration group.

You can modify these permissions in two ways:

■ By displaying and editing the roles that contains the permissions.
See "Modifying permissions in roles" on page 80.

■ By displaying the Permissions dialog for the Configuration Group container object or an individual configuration group.
See "Modifying permissions from the Permissions dialog box" on page 158.

Note: To modify permissions, you must be logged on as a member of the Domain Administrator role.

Distributing a configuration by way of a configuration group

When you distribute configurations by way of a configuration group, they are distributed to all computers that are members of the configuration group.

To learn how computers are updated with new configurations, see "Product configuration distribution" on page 26.

To distribute a configuration to a configuration group

1 In the Symantec management console, on the System view tab, in the left pane, click **Configuration Groups**.

2 In the right pane, select the configuration groups through which you want to distribute the configuration.

3 On the Selection menu, click **Distribute**.

4 When you are prompted to distribute the configuration, select one of the following.

■ Yes: Distribute the configuration.
A message is sent to the computers that are associated with the configuration group, informing them to contact the SESA Manager for a new configuration.

■ No: Do not distribute the configuration.

Deleting a configuration group

When you no longer need a configuration group, you can delete it. This deletes the associations between the computers and configurations that make up the configuration group. It does not delete the computers or configurations as objects in the SESA Directory.

To delete a configuration group

1   In the Symantec management console, on the System view tab, in the left pane, click **Configuration Group**.

2   In the right pane, select the configuration group that you want to delete.

3   On the Selection menu, click **Delete**.

4   When you are prompted to delete the configuration group, select one of the following.

   ■   Yes: Delete the configuration group from the SESA Directory.
       The configuration group is removed from the list in the right pane.

   ■   No: Do not delete the configuration group.

Managing SESA DataStores

The DataStores node provides access to the SESA DataStores that are available to this domain.

Each SESA DataStore stores event data that is generated by SESA and SESA-enabled products, and the alerts that are generated by the alert configurations that you create.

See "SESA DataStore" on page 18.

Depending on the quantity of security events and how fast they are logged to the SESA DataStore, more than one SESA DataStore may be necessary for a SESA installation. You use the SESA installer to create additional SESA Directories.

See the section on installing the SESA DataStore in the *Symantec Enterprise Security Architecture Implementation Guide*.

When there are multiple SESA DataStores, you can redirect the logging of events by selecting a different primary SESA DataStore.

See "Identifying the primary SESA DataStore" on page 204.

Note: If you plan to access a SESA DataStore that is installed on a Windows system from a SESA Manager that is installed on a Solaris system, you must install the IBM DB2 Runtime Client 7.2 (with FixPack 5) on the Solaris system before installing the SESA Manager.

When you select the DataStores node, the Selection menu and toolbar provide options for the following:

■ Editing SESA DataStore properties

■ Modifying SESA DataStore permissions

■ Refreshing the SESA DataStores list
See "Refreshing the Symantec management console" on page 47.

Editing SESA DataStore properties

When the DataStores node is selected in the left pane, the right pane lists the SESA DataStores that are available in the domain. You can view and edit the properties of these SESA DataStores.

Edit SESA DataStore properties

You must first decide whether it is appropriate to make changes to the SESA DataStore. If it is, you can edit the properties of the selected SESA DataStore.

To decide whether to edit the properties of a SESA DataStore

◆ Contact the administrator of the SESA Manager to determine whether changes have been made to the SESA DataStore.
See the section on maintaining the SESA DataStore in the *Symantec Enterprise Security Architecture Implementation Guide*.

For example, you must edit the SESA DataStore properties:

■ When the SESA DataStore user name or password are changed.

■ If the Uniform Resource Identifier (URI) is changed to support a multiple SESA DataStore environment or if the SESA DataStore is using a different database driver.

■ If the alert correlation service computer is changed, or if you want to turn off alert correlation for the SESA DataStore.
The alert correlation service computer is the SESA Manager that identifies the events that become alerts.

To edit SESA DataStore properties

1 In the Symantec management console, on the System view tab, in the left pane, click **DataStores**.

2 On the Selection menu, click **Properties**.

3 In the SESA DataStore dialog box, on the Connection tab, edit the text boxes as necessary.
For a description of the text boxes, click **Help**.

4 Click **OK**.

Modifying SESA DataStore permissions

When you create a role, permissions are assigned for each SESA DataStore with regard to that role. These permissions control whether role members who log on to the Symantec management console can view, modify, or delete the SESA DataStore.

You can modify these permissions in two ways:

■ By displaying and editing the roles that contains the permissions.
See "Modifying permissions in roles" on page 80.

■ By displaying the Permissions dialog for the DataStore container object or
an individual SESA DataStore.
See "Modifying permissions from the Permissions dialog box" on page 158.

Note: To modify permissions, you must be logged on as a member of the Domain
Administrator role.

Managing SESA Directories

The Directories node provides access to the SESA Directories that are available
to this domain.

Each SESA Directory uses the Lightweight Directory Access Protocol (LDAP) to
store the configuration data that is required to manage SESA-enabled products
and SESA services for a specific SESA Manager.

See "SESA Directory" on page 16.

When you select the Directories node, the Selection menu and toolbar provide
options for the following:

■ Adding a SESA Directory

■ Editing SESA Directory properties

■ Modifying SESA Directory permissions

■ Deleting a SESA Directory

■ Refreshing the SESA Directories list
See "Refreshing the Symantec management console" on page 47.

Adding a SESA Directory

When you select the Directories node in the left pane, the right pane lists the
SESA Directories that are currently in use for the domain.

If you install a new SESA Directory in the domain, it is automatically added to
the list. You can also add SESA Directories to the list using the Symantec
management console.

For example, in a SESA environment that consists of a single domain, you must install a second read-only replica SESA Directory before you configure SESA Manager to SESA Directory failover. If you add a second domain, you make this same replica SESA Directory accessible for failover for the sub-domain by adding an association to it to the Directories node of the sub-domain.

See "Configuring SESA Manager to SESA Directory failover" on page 201.

Add SESA Directories

You can add to the list of available SESA Directories in two ways:

■　You can associate SESA Directories from other domains with the selected domain.

■　You can create additional instances of a SESA Directory in the current domain.

To associate a SESA Directory from another domain with the selected domain

1　In the Symantec management console, on the System view tab, in the left pane, click **Directories**.

2　On the Selection menu, click **New**.

3　In the Find SESA Directories dialog box, use the Look in list to select the domain in which to look for a SESA Directory.

4   In the Available Directories list, select a SESA Directory.

5   If you are adding the SESA Directory for failover, the SESA Directory you
     select should be a read-only replica.
     To determine whether a SESA Directory is a read-only replica or a read-write
     master, do the following.

     ■   Click **Properties**.

     ■   In the Directory properties dialog box, on the Connection tab, note the
          Directory type.

     ■   Click **OK**.

6   Click **OK**.

7   In the dialog box that appears, type a name for the SESA Directory.

8   Click **OK**.
     The SESA Directory that you specified appears in the list of SESA
     Directories in the right pane.

To create an additional instance of a SESA Directory in the current domain

1   On the System view tab, in the left pane, click **Directories**.

2   On the Selection menu, click **New**.

3   In the Available Directories list, select a SESA Directory in this domain to
     use as the basis for the new instance.

4   Click **OK**.

5   In the dialog box that appears, type a name for the new instance of the SESA
     Directory.

6   Click **OK**.
     The SESA Directory that you specified appears in the list of SESA
     Directories in the right pane.
     You can edit the properties of the new instance of the SESA Directory to
     change connection information.

Editing SESA Directory properties

When the Directories node is selected in the left pane, the right pane lists the
SESA Directories that are available in the domain. You can view and edit the
properties of the SESA Directories.

Edit SESA Directory properties

You must first decide whether it is appropriate to make changes to the SESA
Directory. If it is, you can edit the properties of the selected SESA Directory.

To decide whether to edit the properties of a SESA Directory

◆ Contact the SESA Manager administrator to determine whether changes have been made to the SESA Directory.
See the section on maintaining the SESA Directory in the *Symantec Enterprise Security Architecture Implementation Guide*.

For example, you must edit SESA Directory properties when:

■ The URI for the SESA Directory has changed.

■ The SESA Directory type has changed.

To edit SESA Directory properties

1 In the Symantec management console, on the System view tab, in the left pane, click **Directories**.

2 On the Selection menu, click **Properties**.

3 In the Directory dialog box, on the Connection tab, in the URI text box, edit the URI if necessary.

Warning: If you change the Directory URI, you must also separately reconfigure the SESA Directory so that the Directory SSL settings point to a new certificate that matches the specified URI.
If you do not, the SESA Manager and SESA Directory are unable to communicate.

4   Use the Directory Type drop-down list to specify whether the SESA
     Directory is a read-only replica or a read-write master.
     You must be a member of the Domain Administrator role to change the
     Directory type.

5   Click **OK**.

Modifying SESA Directory permissions

When you create a role, permissions are assigned for each SESA Directory with
regard to that role. These permissions control whether role members who log on
to the Symantec management console can view, modify, or delete the SESA
Directory.

You can modify these permissions in two ways:

■   By displaying and editing the roles that contains the permissions.
     See "Modifying permissions in roles" on page 80.

■   By displaying the Permissions dialog for the Directory container object or
     an individual SESA Directory.
     See "Modifying permissions from the Permissions dialog box" on page 158.

Note: To modify permissions, you must be logged on as a member of the Domain
Administrator role.

Deleting a SESA Directory

If a SESA Directory is no longer being used in the domain, you can delete it.

This does not uninstall the SESA Directory; it simply removes it from the list of
SESA Directories that are available for use in this domain.

Warning: If you delete a SESA Directory that is being used a SESA Manager or
installed product, the SESA Manager or product may no longer be able to
function.

To delete a SESA Directory

1   In the Symantec management console, on the System view tab, in the left
     pane, click **Directories**.

2   In the right pane, select the SESA Directory that you want to delete from the
     list of available SESA Directories.

3   On the Selection menu, click **Delete**.

4   A message warns you that removing the SESA Directories is permanent.
Select one of the following.

■   Yes: Delete the SESA Directory.
The SESA Directory is removed from the list in the right pane.

■   No: Do not delete the SESA Directory.

Managing notification services

Notification services are the paging companies that you can use to notify
responsible personnel when an alert occurs.

These services are identified to the SESA Manager by the name of the
notification server and its Uniform Resource Identifier (URI).

A default set of notification services are added when the SESA Manager is
installed, as shown in Figure 3-2.

Figure 3-2   Notification Services

When you select the Notification Services node, the Selection menu and toolbar
provide options for the following tasks:

■   Adding a notification service

■   Modifying notification service permissions

■ Refreshing the notification services list
See "Refreshing the Symantec management console" on page 47.

When you select one of the listed notification services in the right pane, the
Selection menu and toolbar provide the following additional options:

■ Editing notification service properties

■ Deleting a notification service

Adding a notification service

If you want to use a notification service that is not in the default list, you can add
it using the Create a new Notification Service Wizard.

To add a notification service

1   In the Symantec management console, on the System view tab, in the left
    pane, click **Notification Services**.

2   On the Selection menu, click **New**.

3   In the first panel of the Create a new Notification Service Wizard, click **Next**.

4   In the Notification Services panel, in the Service Name text box, type the
    name for the notification service.

5   In the URI text box, type the URI for the notification server.
    This value is a combination of the Simple Network Paging Protocol (SNPP)
    address of the server and the port on which it listens.

6   In the Description text box, type a description.
    This text box is optional.

7   Click **Next**.

8   In the Notification Service Summary panel, review the information that you
    have specified. Then do one of the following:

    ■ To make changes, click **Back**.

    ■ To create the notification service, click **Finish**.
       The Task/Status list at the bottom of the panel scrolls up to show the
       notification service properties that are being created. A green check
       mark indicates success.
       When the notification service is created, the Cancel button changes to a
       Close button.

9   Click **Close**.

Editing notification service properties

You can change the URI or description of an existing notification service. You cannot change the service name.

To edit an existing notification service

1   In the Symantec management console, on the System view tab, in the left pane, click **Notification Services**.

2   In the right pane, select the notification service that you want to edit.

3   On the Selection menu, click **Properties**.

4   In the Notification Service Properties dialog box, modify the URI and/or description.

5   Click **OK**.

Modifying notification service permissions

When you create a role, permissions are assigned for each notification service with regard to that role. These permissions control whether role members who log on to the Symantec management console can view, modify, or delete the notification service.

You can modify these permissions in two ways:

■   By displaying and editing the roles that contains the permissions.
    See "Modifying permissions in roles" on page 80.

■   By displaying the Permissions dialog for the Notification Services container object or an individual notification service.
    See "Modifying permissions from the Permissions dialog box" on page 158.

Note: To modify permissions, you must be logged on as a member of the Domain Administrator role.

Deleting a notification service

You can delete notification services that are not being used by any of your users.

To delete a notification service

1   In the Symantec management console, on the System view tab, in the left pane, click **Notification Services**.

2   In the right pane, select one or more notification services.

3 Click **Delete**.

4 When asked if you are sure that you want to delete the notification services, select one of the following:

- Yes: Delete the notification services.
  The notification services are removed from the list in the right pane.

- No: Do not delete the notification services.

Working with permissions

Permissions define the access that members of a role have to specific SESA objects. Along with other role properties, permissions control what users can see and do when they log on to the Symantec management console.

As with roles, you can only work with permissions if you are a member of the Domain Administrator role. The permissions of objects are defined initially when you create roles, and when you create new objects. You can then modify the permissions to fine tune your roles.

Warning: Modifying permissions is an advanced feature. You should only customize permissions if you have a clear understanding of how access control works in the SESA Directory.

About permissions

Permissions are always associated with roles and applied when a member of a role logs on to the Symantec management console. Table 3-3 shows the permissions that role members can have to view and work with SESA objects.

Table 3-3 Object permissions

Permission	Description
Read	Lets role members see the attributes of objects.
Write	Lets role members modify objects.
Add	Lets role members create a new child object within the selected container.
	Add is reserved for top level container objects, except for organizational units, which can be created hierarchically.
Delete	Lets role members delete objects.

Permission	Description
Search	Lets role members search the SESA Directory or SESA DataStore for objects.
	Search must be enabled for the other access permissions to work.

Objects that have permissions are:

■ Container objects

Container objects are created when the SESA Directory and SESA DataStore are installed. These objects contain all of the new objects that you create.

In the Symantec management console, container objects appear in the left pane of each tab.

Examples of container objects are Users and Configuration Groups, alert and event report folders, and software features of installed products.

■ Objects that you create within container objects

When you create new objects to represent your security environment, they are stored in the SESA Directory and SESA DataStore within the container objects.

On the System view tab, the objects that you create appear in the right pane when you select their container object in the left pane. For example, selecting Users displays the individual users that you have created within the Users container.

These created objects are sometimes known as child or leaf objects.

Figure 3-3 shows container objects and created objects in the Symantec management console.

Figure 3-3   Objects in the Symantec management console

Propagation of permissions

As you create new management objects, it is important to understand the relationship between the permissions of container objects and the permissions of the objects you create within these containers.

In most cases, the permissions of a container object propagate to all new objects that you create within the container. This means that on a role by role basis, when you create new objects the current permissions of the container object are propagated to the new objects.

For example, in Role A, on the Users tab, you disable Write permission for the Users container. In Role B, you disable Delete permission for the Users container. When you create new users, members of Role A do not have Write permission, so they cannot modify the properties of the new users. Members of Role B do not have Delete permission, so they cannot delete the new users.

Propagation occurs only when you create new objects. For example, you may have already created several users before you disabled the Write permission in Role A and the Delete permission in Role B. These permissions are not disabled for the original users unless you set them explicitly.

Modifying permissions from the Permissions dialog box

You can modify permissions in two ways:

■ By editing the role using the Role Properties dialog box.
Use this method to modify permissions for several objects within one role.
See
You cannot edit the permissions of software products and their configurations through the Role Properties dialog box.

■ By displaying the Permissions dialog box for the object.
Use this method to modify the permissions for a specific object within several roles.

To modify permissions from the Permissions dialog box

1 Do one of the following:

■ To display the Permissions dialog for a container object, in the Symantec management console, on the System view tab, in the left pane, click the container.
For example, click Users.
If an object is selected in the right pane (indicated by a highlight on that object), you must deselect it. Click CTRL and then click the highlighted object in the right pane.

■ To display the Permissions dialog for a created object, on the System view tab, in the left pane, click the container object that contains the created object.

For example, to access a user, click Users.

In the right pane, select the object whose permissions you want to modify. For example, select a specific user.

2 On the Selection menu, click **Permissions**.

The Permissions dialog box shows the name of the object for which you are changing permissions and roles that contain permissions for that object.

Roles are listed if you created them after you created the object.

Roles are not listed if you created them before you created the object.

3   You can do any of the following:

■   To modify permissions for this object within the listed roles, enable or disable the permissions.
    You should not disable the Search permission.

■   To add a role, so that you can modify its permissions, click **Add**.
    In the Find Roles dialog box, in the Available roles list, select the roles for which you want to modify permissions.
    Click **Add**. The selected roles are moved to the Selected roles list.
    Click **OK**. You are returned to the Permissions dialog box, with the selected roles listed.

■   To remove a role, select it, and then click **Remove**.

■   To edit a role's properties, select it, and then click **Properties**.

4   Click **OK**.

Configuring products

This chapter includes the following topics:

- Working with configurations
- Viewing product configurations
- Creating new configurations
- Editing a configuration's settings
- Editing a configuration's associations
- Distributing configurations
- Modifying the permissions of configurations
- Deleting configurations

Working with configurations

Configurations control the behavior of the software features of your security products. When a software product is installed, its default configurations are used.

When you want to change the behavior of a software feature, you can edit its configuration and distribute it to computers in a variety of ways.

See "Product configuration distribution" on page 26.

The Configurations view tab contains the SESA configurations, and configurations for your SESA-enabled security products.

The Configurations view tab provides options for the following:

- Viewing product configurations
- Creating new configurations

- Editing a configuration's settings

- Editing a configuration's associations

- Distributing configurations

- Modifying the permissions of configurations

- Deleting configurations

Viewing product configurations

Each SESA-enabled product that you have installed is represented by a folder in the left pane of the Symantec management console. Individual product folders contain the product's software feature folders.

Product software feature folders contain the configurations that are associated with each subcomponent of the product. Software features represent configurable components of a particular product.

Each configurable software feature of the security products that are installed on a computer has a configuration called Default. This configuration is always present and cannot be deleted.

The default configuration is used when the product is first installed and it continues to be used if you do not designate that another configuration should be used for that computer.

See "Creating new configurations" on page 163.

You can then make changes to the new configuration by editing its properties.

Figure 4-1 shows the Solaris configuration of the Manager Components Configuration software feature of the SESA product.

Figure 4-1   Viewing a product software feature configuration

To view product configurations

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand a product folder to display its software features.

2   Expand a software feature folder to view the available product configurations.

3   In the left pane, select a configuration.
    The data that appears in the right pane reflects what you have selected in the left pane.

Creating new configurations

Each configurable software feature of the security products that are installed on a computer has a configuration called Default. This configuration is always present and cannot be deleted.

The default configuration is used when the product is first installed and it continues to be used if you do not specifically designate that another configuration should be used for that computer.

To change the behavior of a software feature, you can create a new configuration, using the default configuration or another configuration as a template. You can change the new configuration by editing it, without changing the configuration on which it is based.

As you create the configuration, you can assign computers, configuration groups, and organizational units to be used as distribution points for the configuration. Alternatively, you can add these later by editing the configuration.

See "Editing a configuration's settings" on page 165.

To create a new configuration

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand a product folder.

2   Select the software feature for which you want to create the configuration.

3   On the Selection menu, click **New**.

4   In the Create a new Configuration Wizard, click **Next**.

5   In the General panel, type the Configuration name and Description.
    The Description text box is optional.

6   If you want to base the new configuration on an existing configuration, in the Choose a configuration to copy from drop-down list, select a base configuration.

7   Click **Next**.

8   In the Computers panel, do one of the following:

    ■   To add computers now, click **Add**, and then click **Next**.

    ■   To add computers later, click **Next,** and then edit the configuration's properties at another time.
    See "Associating computers with configurations" on page 167.

9   In the Configuration Groups panel, do one of the following:

    ■   To add configuration groups now, click **Add**, and then click **Next**.

    ■   To add configuration groups later, click **Next**, and then edit the configuration's properties at another time.
    See "Associating configuration groups with configurations" on page 169.

10 In the Organizational Units panel, do one of the following:

    ■   To add organizational units now, click **Add**, and then click **Next**.

    ■   To add organizational units later, click **Next**, and then edit the configuration's properties at another time.
    See "Associating organizational units with configurations" on page 171.

11 In the Configuration properties panel, click **Next**.

The Configuration properties panel lists the tabs that contain the configuration's settings and describes how you can use them when you edit the configuration.

See "Editing a configuration's settings" on page 165.

You cannot change the settings when you create the configuration.

12 In the Configuration summary panel, review the information that you have specified, and then do one of the following:

■ To make changes, click **Back**.

■ To create the configuration, click **Finish**.

The Task/Status list at the bottom of the panel shows the configuration properties that are being created. A green check mark indicates success.

When the configuration is created, the Cancel button changes to a Close button.

13 Click **Close**.

In the left pane, the new configuration is added to the list of configurations for the software feature.

If the new configuration does not appear in the left pane, select the product or domain and click **Refresh**.

You can edit the parameters of the configuration. Optionally, you can distribute the configurations to the organizational units, configuration groups, or computers that you associate with the configuration.

Editing a configuration's settings

For any software feature, you can create multiple configurations. You can edit the software settings of these configurations to fine tune the implementation of a security product.

The details for editing the configurations of the software features of third-party or integrating products are provided in the documentation for those products.

The details for editing SESA 2.0 configurations are described in "Configuring SESA 2.0" on page 177.

Note: If your environment has multiple SESA Managers, you can install a software product on a single SESA Manager.

Then, if you want to be able to edit the product's configurations when you are connected to a second SESA Manager, deploy the SESA Manager extensions of the product to the second SESA Manager.

See "Deploying and removing SESA Manager extensions" on page 106.

To edit a configuration's settings

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand a product folder.

2   Expand the folder of the software feature that you want to edit.

3   Select the configuration that you want to edit.

4   In the right pane, on the General tab, edit the description.
    You cannot edit the configuration name or the date in the Last Modified On box. If the configuration that you are editing is the default configuration, you cannot edit anything on the General tab.

5   On the other tabs, view or edit property values.
    For information on the property values, click **Help**.
    When you make changes, the icon beside the configuration turns red to warn you that the configuration has been changed and has not been saved.

6   When you finish editing the configuration, select one of the following:
    ■   Apply: Save your changes and continue editing.
    ■   Reset: Cancel all of the changes that you have made on all of the tabs and reset the values to the last saved values.
    After you apply changes, users of the configuration automatically receive the changes when the Config poll time is reached.
    See "Setting the configuration poll time" on page 216.
    If you want computers to receive a new configuration immediately, you can distribute it.
    See "Distributing configurations" on page 172.

Editing a configuration's associations

The management objects that are associated with the configurations that you create control how SESA distributes the configurations.

You associate a configuration with individual computers, configuration groups, or organizational units that use it. You can then distribute the configuration immediately or at a later time.

When you specify more than one association for a configuration, SESA implements a distribution order. For an explanation of the order in which distribution is performed, see "Product configuration distribution" on page 26.

You can make these associations when you create the configuration, or later by editing the configuration.

If a computer is not associated with a configuration, either directly or through membership in an organizational unit or configuration group that is associated with the configuration, the computer receives the default configuration for the software feature.

You can specify how a configuration is distributed by doing one or more of the following:

■　Associating computers with configurations

■　Associating configuration groups with configurations

■　Associating organizational units with configurations

Associating computers with configurations

You can associate computers with a configuration when you want the products that are running on the computers to use the new or updated configuration. If the configurations are already associated with a computer, no action is required.

To associate computers with a configuration

1　In the Symantec management console, on the Configurations view tab, in the left pane, expand a product folder, and then a software feature.

2　Select the configuration to which you want to associate computers.

3　On the Selection menu, click **Properties**.

4   In the Configuration Properties dialog box, on the Computers tab, click **Add.**

5   In the Find Computers dialog box, do one of the following:

■   To proceed without modifying the Available computers list, select one or more computers, and then continue at step 6.
     The Available computers list shows all computers for the domain, up to the number of computers indicated by the Maximum search count text box.

■   To modify the Available computers list by specifying search criteria, do the following:

Look in	Identifies the domain. You cannot change this value.
Computer name	Type a computer name.
	You can specify a partial computer name that contains one or more asterisks. For example: *dev*
	All computers with names that contain this string are returned.
SESA Managers only	Check to limit the search to SESA Managers.
Maximum search count	Type a number to reduce or increase the number of computers that are returned by the search.

Start search.   Click here to start the search.

The Available computers list is revised based on the search criteria.

Stop search.   Click here to stop the search before it is complete.

In the revised Available computers list, select one or more computers.

6   Click **Add**.

The computers are added to the Selected computers list.

7   Click **OK**.

8   On the Computers tab, you can also do either of the following:

- To remove a computer, select it, and then click **Remove**.
- To edit the properties of a computer, select it, and then click **Properties**.
  See "Editing computer properties" on page 118.

9   Select one of the following:

- OK: Save your changes and close the Configuration Properties dialog box.
- Apply: Save your changes and leave the dialog box open for further editing.

Associating configuration groups with configurations

You can associate a configuration group with a configuration when you want the products that are running on the computers in the configuration group to use a new or updated configuration.

To associate a configuration group with a configuration

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand a product folder, and then a software feature.

2   Select the configuration with which you want to associate the configuration group.

3   On the Selection menu, click **Properties**.

4   In the Configuration Properties dialog box, on the Configuration Groups tab, click **Add**.

5   In the Find Configuration Groups dialog box, in the Available Configuration Groups list, select one or more configuration groups.

6   Click **Add**.
    The configuration groups are added to the Selected Configuration Groups list.

7   Click **OK**.

8   On the Configuration Groups tab, you can also do any of the following:

    ■   To remove a configuration group, select it, and then click **Remove**.

    ■   To edit the properties of a configuration group, select it, and then click **Properties**.
        See "Editing configuration group properties" on page 140.

9   Select one of the following:

    ■   OK: Save your changes and close the Configuration Properties dialog box.

    ■   Apply: Save your changes and leave the dialog box open for further editing.

Associating organizational units with configurations

You can associate an organizational unit with a configuration when you want the products that are running on the computers in the organizational unit to use a new or updated configuration.

To associate an organizational unit with a configuration

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand a product folder, and then a software feature.

2   Select the configuration with which you want to associate organizational units.

3   On the Selection menu, click **Properties**.

4   In the Configuration Properties dialog box, on the Organizational Units tab, click **Add**.

In the Find Organizational Units dialog box, the Look in list shows the domain in which you are working. It cannot be changed.

5   In the Find Organizational Units dialog box, in the Available organizational units list, select one or more organizational units.

6   Click **Add**.
The organizational units are added to the Selected Organizational Units list.

7   Click **OK**.

8   On the Organizational Units tab, you can also do either of the following:

■   To remove an organizational unit, select it, and then click **Remove**.

■   To edit the properties of an organizational unit, select it, and then click
Properties.
See "Editing organizational unit properties" on page 102.

9   Select one of the following:

■   OK: Save your changes and close the Configuration Properties dialog
box.

■   Apply: Save your changes and leave the dialog box open for further
editing.

Distributing configurations

After you modify a configuration, you can inform all of the computers that are
associated with the configuration that a new configuration is available.

Note: The Distribute option lets you override the standard behavior of SESA.
"Product configuration distribution" on page 26 describes what happens when
you use the Distribute option.

If you do not use Distribute, computers automatically request new
configurations when the Config poll time is reached.

See "Setting the configuration poll time" on page 216.

The timing of configuration distribution varies depending on the amount of
traffic on the SESA Manager.

Before you distribute a configuration, you should associate it with one or more
computers. The configuration can be either directly associated with a computer,
or indirectly associated by way of organizational units or configuration groups.
Except for the Default configurations, distributing a configuration that is not
associated with at least one computer (directly or by an association with an
organizational unit or a configuration group) has no effect.

See "Editing a configuration's associations" on page 167.

To distribute a configuration

1   In the Symantec management console, on the Configurations view tab, in
the left pane, expand a product folder until you can select the configuration
that you want to distribute.

2   On the Selection menu, click **Distribute**.

3 When you are prompted to distribute the configuration, select one of the following.

■ Yes: Distribute the configuration.
A message is sent to the computers that are associated with the configuration, informing them to contact the SESA Manager for a new configuration.

■ No: Do not distribute the configuration.

Modifying the permissions of configurations

When you create a role, permissions are assigned for each configuration with regard to that role. These permissions control whether role members who log on to the Symantec management console can view, modify, or delete the configuration.

To modify the permissions for a configuration, display the Permissions dialog for the configuration, as described in "Modifying permissions from the Permissions dialog box" on page 158.

While you can modify the permissions for most SESA objects from the Role Properties dialog box, you cannot use this method to modify permissions for configurations.

To modify permissions for configurations, you must be logged on as a member of the Domain Administrator role.

To modify permissions
The ability to set permissions on specific configurations means that you can very strictly control access to the configurations.

This section provides a hypothetical example of how you can modify permissions.

You have both Microsoft Windows and Sun Solaris systems and want to be able to distribute configurations that are specific to each kind of system. You have two users, each of which has expertise in one of these operating systems. You want each user to have the sole ability to manage the configuration for the operating system with which he or she is familiar.

Complete the following procedures to use permissions to control access to configurations:

- First, create a Manage Windows Agent Config role and a Manage UNIX Agent Config role with identical characteristics, and assign a user to each role.

- Then create a Windows Agent configuration and a UNIX Agent configuration, and set the role permissions so that each configuration is only editable by the correct role and user.

- Finally, test the roles to make sure that they limit access as you intend.

To create the roles and assign users

1 In the Symantec management console, on the System view tab, create users JSmith and ABrown.
   For details on creating users, see "Creating a new user" on page 85.

2 Create two roles, one called Manage Windows Agent Config and the other called Manage UNIX Agent Config.
   For details on creating roles, see "Creating a role" on page 70.

3 For both roles, in the Create a Role Wizard panels, make the following selections:

Product Components panel	Product: SESA 2.0
	Role members will have access to only the selected product components:
	Agent Configuration
Manage and View Events panel	Allow management of policies and configurations for SESA 2.0
	(Deselect event viewing.)
Console Access Rights panel	Role members will have only the selected console access rights:
	View Configurations
Organizational Units panel	Role members will have access to all organizational units.

4 When you create the Manage Windows Agent Config role, in the Members dialog box, make JSmith a member of the role.

5 When you create the Manager UNIX Agent Config role, in the Members dialog box, make ABrown a member of the role.

To create the configurations and assign permissions

1   On the Configurations view tab, under SESA 2.0 > Agent Configurations, create two configurations based on the Default configuration, named Windows Agent Config and UNIX Agent Config.
    For details on creating configurations, see "Creating new configurations" on page 163.

2   After completing the configurations, select the Windows Agent Config.

3   Exclude the Manage UNIX Agent Config role from editing this configuration as follows:

    ■   On the Selection menu, click **Permissions**.

    ■   In the Permissions dialog box, click **Add**.

    ■   In the Find Roles dialog box, select the Manage UNIX Agent Config role, click **Add**, and then click **OK**.

    ■   In the Permissions dialog box, select the Manage UNIX Agent Config role, uncheck the permissions, and then click **OK**.
        Members of the Manage UNIX Agent Config role can no longer edit the Windows Agent Config configuration.

4   Select the UNIX Agent Config.

5   Use the process in step 3 to exclude members of the Manage Windows Agent Config role from managing the UNIX Agent Config.

6   Select the Default configuration.

7   Use the process in steps 3 to exclude members of both the Manage Windows Agent Config and Manage UNIX Agent Config roles from seeing or managing the Default configuration.

To test the roles

1   Log out of the Symantec management console.

2   Log on as JSmith, the user who is a member of the Manage Windows Agent Config role.

3   On the Configuration tab (the only tab that this user can see), expand SESA 2.0 > Agent Configuration.
    You should be able to see and edit only the Windows Agent configuration.

4   Log out, and log on as ABrown, a member of the Manage UNIX Agent Config role.

5   On the Configuration tab, expand SESA 2.0 > Agent Configuration.
    You should be able to see and edit only the UNIX Agent configuration.

Deleting configurations

You can delete configurations when you no longer need them. You cannot delete default configurations.

When you delete a configuration, it is removed from any computer, organizational unit, or configuration group with which it has been associated.

Any computer that uses the deleted configuration will continue to do so until you distribute another configuration, or until the poll interval is reached and the computer polls the SESA Manager to see if there are new configurations.

To delete a configuration

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand the product folder.

2   Expand the software feature folder that contains the configuration that you want to delete, and then select the configuration.

3   On the Selection menu, click **Properties**.

4   In the Configuration Properties dialog box, on the tabs, you can see any computer, organizational unit, or configuration group with which the configuration is associated. Verify that the configuration is no longer needed.

5   Click **Cancel**.

6   On the Selection menu, click **Delete**.

7   When you are prompted to delete the configuration, select one of the following.

   ■   Yes: Delete the configuration.
       The configuration is removed from the list of configurations.

   ■   No: Do not delete the configuration.

Configuring SESA 2.0

This chapter includes the following topics:

- Introducing the Symantec Enterprise Security Architecture Configurations

- Manager Configurations

- Manager Components Configurations

- Manager Master Heartbeat Configuration

- Manager Connection Configurations

- Agent Connection Configurations

- Agent Configurations

- Product Installation Service configurations

- Manager Event Exclusion Configurations

Introducing the Symantec Enterprise Security Architecture Configurations

Symantec Enterprise Security Architecture (SESA) relies on SESA Agents, a SESA Directory, a SESA DataStore, and a SESA Manager to collect, store, process, and report security events to the Symantec management console, and to distribute configuration changes to SESA and integrated products.

See "Components of SESA" on page 15.

The SESA software feature configurations let you configure these components.

About the SESA v1.1 and SESA 2.0 products

SESA v2.0 installs both the SESA 2.0 and SESA v1.1 products.

SESA v1.1 supports backwards compatibility with products that were built to integrate with SESA 1.1. The SESA v1.1 node lets you configure SESA so that products that are built with SIPI 1.1 can install.

For example, when you want to distribute an integrated product that uses the SIPI 1.1 installation, you may need to modify the SESA v1.1 SESA Manager Configuration to specify the SESA DataStore and SESA Directory to be used.

In SESA 2.0, some of the SESA v1.1 software features have been renamed. While there is a correspondence between the software features, as shown in Table 5-1, some properties have been added or changed in SESA 2.0.

Table 5-1   Comparison of SESA v1.1 and SESA 2.0 software features

Software feature	Description
SESA Manager Configurations (SESA v1.1) Manager Configurations (SESA 2.0)	Configuration data is NOT shared between the two SESA versions. In SESA 2.0, the Directory and DataStore tabs have been moved to the new Manager Connection Configurations to enable the configuration of failover.
SESA Manager Components Configurations (SESA v1.1) Manager Components Configurations (SESA 2.0)	Configuration data is NOT shared between the two SESA versions. In SESA 2.0, the Heartbeat and LiveUpdate tabs have been added to support new 2.0 functionality.
SESA Agent Configurations (SESA v1.1) Agent Configurations (SESA 2.0)	Configuration data is shared between the two SESA versions. This means that the Heartbeat tab that was added for SESA 2.0 also appear in the 1.1 SESA Agent Configurations, although heartbeat is not supported for v1.1.

In addition, the software features that are shown in Table 5-2 have been added for SESA 2.0

Table 5-2   New SESA 2.0 software features

Software Feature	Description
Manager Master Heartbeat Configuration	Lets you select the machine that is used as the Master Heartbeat service computer.
	There can be only one configuration, which is the Default configuration.
Manager Connection Configurations	Lets you configure SESA Manager to SESA Directory and SESA Manager to SESA DataStore failover.
Agent Connection Configurations	Lets you configure SESA Agent to SESA Manager Failover.
Product Installation Service	Lets you configure the service that is used to install integrated product packages.
Manager Event Exclusion Configurations	Lets you filter events to exclude some events from being stored in the SESA DataStore.

You can see another difference between SESA v1.1 and SESA 2.0 when you view the properties of the software feature configurations for each product.

For example, SESA v1.1 and SESA 2.0 manage connection information using different software features. This is reflected in the properties of their software features, as follows:

■   In SESA v1.1, you select the SESA Directory for the domain by using the Directory tab of the SESA Manager Configuration.
When you view the properties of the SESA Manager Configuration, the computer that hosts the SESA Directory appears on the Computers tab.

■   In SESA 2.0, you select the primary SESA Directory for the domain by using the SESA Directory tab of the Manager Connection Configuration.
When you view the properties of the Manager Connection Configuration, the computer that hosts the primary SESA Directory appears on the Computers tab.

Specific topics that describe each software feature call out the differences between SESA v1.1 and SESA 2.0 configurations where applicable.

Manager Configurations

Table 5-3 lists the tabs on which you can change settings for Manager Configurations. These configurations hold common SESA Manager settings that may affect one or more of the manager components across SESA Managers. These common settings include selecting the SESA Directory and SESA DataStore for the domain, and setting throttle options that control connection attempts to SESA Managers.

Table 5-3 Manager Configuration tabs

Tab	Description
General	Contains the name, description, and modification date of the configuration.
Debug	Lets you enable or disable debugging for specific systems, such as the SESA DataStore, HTTP, or the LDAP directory, and set the time stamp interval. Turning on these settings causes SESA to output more verbose debug information to the log files for tracking down potential problems.
	This information is useful for debugging purposes. You should not change these settings unless you are debugging a problem with the help of Symantec technical support.
Throttle	Lets you balance security and scalability issues on a SESA Manager by controlling when or how often events are sent to the SESA DataStore.
	For example, you can set a threshold for all SESA Managers, so that when a SESA Agent tries to contact a SESA Manager too many times in a given time period, the computer is denied access to the SESA Manager for an allotted time.
	If you make the timeouts shorter, you protect yourself more against hyperactive clients, or denial-of-service attacks (DOS attacks), but if you make the time allotments longer, you may be able to increase the performance of the server and avoid problems with false positives for hyperactive clients.
Client Validation	Controls how SESA handles the validation of clients.
	For example, on this tab, you can set how SESA reacts to clients who provide bogus passwords. If SESA attempts to validate a client and fails, the client is blacklisted until the entry times out. This tab lets you set how long those timeouts last.

Tab	Description
Web Server	Provides your Web server settings to the SESA Manager so that SESA components can contact other SESA components that are running on local or remote computers.
	Since you can modify the Web server settings independently of SESA, you must provide the SESA Manager with your Web server configuration. If you change the port your Web server is listening on, or change the SESA Servlet Prefix for any reason, you must modify this setting so that SESA can locate its services.
	This is also where you configure SESA to use SSL communication.
Other	Contains miscellaneous settings that let you fine tune the operation of your SESA Manager.
	For example, one setting lets you configure how much minimum disk space is required for the SESA Manager before its logging and other functions are suspended.
	See "Increasing the minimum free disk space requirement in high logging volume situations" on page 181.
Directory (SESA v1.1 only)	Lets you select the SESA Directory for the domain.
DataStore (SESA v1.1 only)	Lets you select the SESA DataStore for the domain.

Increasing the minimum free disk space requirement in high logging volume situations

The Other tab of the Manager Configurations includes the Free Space Minimum Size property. This specifies the amount of free space that is needed for the SESA Manager to function properly. The amount of free space is checked every two minutes and a warning is displayed if the free space is less than the minimum specified.

In an environment that generates a high volume of log messages, you should increase the free space minimum size.

To increase the free space minimum size

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Configuration**.

2   Select the configuration that you want to edit.

3 In the right pane, on the Other tab, for the Free space minimum size property, increase the value to meet the needs of your environment.

By default, the free space minimum size is 50 MB.

In an environment with a high volume of log messages, you should increase the minimum disk space to at least 100 MB or higher. If the SESA Manager is installed on the operating system drive, you should set the free space minimum to at least 2 GB.

4 Click **Apply**.

Manager Components Configurations

Table 5-4 lists the tabs on which you can change settings for the Manager Components Configurations.

These configurations contain specific settings for each of the SESA Manager components. They let you configure the specific settings for each component individually, based on the components configuration requirements. These components generally refer to specific services within the SESA Manager, such as the Event Logging subsystem or the Configuration Service.

Table 5-4 Manager Components Configurations tabs

Tab	Description
General	Contains the name, description, and modification date of the configuration.
Alert	Contains email and retry settings that are used by the alert servlet.
	These settings control how alerts are sent from SESA.
	See "Configuring alert email and retry settings" on page 184.
Event Logger	Lets you control and tune the settings of the Event Logger.
	Only modify the settings on this tab when you want to forward alerts to a remote computer that is off-host, or you want to fine-tune how event data is inserted into the SESA DataStore.
	See "Configuring event logging" on page 185.
Configuration	Lets you configure the SESA Configuration Service by specifying how many times a client can request its configuration during a polling interval.
	If a client exceeds this value, it is flagged as hyperactive, and is not allowed to get its configuration again for a configured interval.

Tab	Description
Heartbeat	Lets you adjust settings for the Heartbeat monitor.
Command	Controls the settings for the command servlet.
	When you use the Distribute option to initiate the distribution of configurations, the Command Servlet contacts each computer using the configuration and notifies it to reload its configuration.
	These settings let you configure throttling information for how many SESA Agents to notify in a given period of time. They can be adjusted based on your environment. If you make this setting too high, you run the risk of overloading your SESA Managers. If the throttling is set too low, it could take a long time to push new settings to a large number of computers.
Administrative	Lets you modify administrative protections such as how long a console session should be idle before timing out, and how often to update when you set the console to auto-refresh.
	You can lengthen the session idle interval to keep the console from timing out quickly or shorten it to increase security.
	You can also specify the character set that the console uses to export information. This toggle lets you select US English ANSI exporting or Unicode encoding for most double-byte character sets, such as Japanese.
	For v2.0 SESA Managers only, you can modify the following:
	■ The values that control the number of events that are downloaded when a user displays a table-formatted report See "Modifying administrative settings" on page 186.
	■ The blacklist settings that control how SESA handles repeated failed attempts to log on the Symantec management console See "Setting up blacklisting for logon failures" on page 188.
Event Forwarding	Lets you specify servlets to which events are forwarded.
	This is useful for rolling up events to a master SESA DataStore location through another SESA Manager. You can log the event to the local SESA DataStore that the SESA Manager is using, and then forward the events to a master or chained SESA DataStore for event correlation or collection.
	See "Forwarding events to other event relays" on page 189.

Tab	Description
Alert Forwarding	Lets you specify servlets to which alerts are forwarded.
	This is useful for consolidating all alert information in a central location for common reports or a common alerting strategy.
	See "Forwarding alerts to other alert mechanisms" on page 192.
SNMP	Contains the settings that control how alert notifications are sent to an SNMP server.
	You can specify the host, port, and community of the SNMP server to which alerts are forwarded, as well as the version of SNMP traps to send to that server.
	See "Configuring SNMP alert responses" on page 193.
LiveUpdate	Lets you schedule a one-time update for the SESA Manager, as well as several retry and delay settings that are related to updating the SESA Manager using LiveUpdate.
	See "Scheduling SESA Manager LiveUpdate" on page 194.

Configuring alert email and retry settings

The Alert tab contains email and retry settings that are used by the alert servlet. These settings control how alerts are sent from SESA.

It is important to specify the email server before you add users to alert configurations. If you do not, you will receive error messages.

To configure alert email and retry settings

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0 > Manager Components Configuration**.

2   Select the configuration that you want to edit.

3   In the right pane, on the Alert tab, next to Email from user, specify the user email address to appear in the From box for all alert response emails.

4   To specify a display name in addition to the email address, use the following syntax:
    Display Name<User@Host.com>

5   Edit the other property values as needed.
    For descriptions of the property values, click **Help**.

6   Click **Apply**.

Configuring event logging

To fine-tune how event data is inserted into the SESA DataStore, configure the properties on the Event Logger tab. This tab also lets you specify the alert logger to which the event logger sends events.

The event logger processes the event and forwards it to the alert logger. The alert logger uses the event to generate an alert if an alert configuration exists for that event.

To configure event logging

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Components Configuration**.

2   Select the configuration that you want to edit.

3 To specify the alert logger to which events will be forwarded, in the right pane, on the Event logger tab, beside Alert URL, type the URL of the alert logger.

4 To optimize the process of inserting events, next to Insert pool, type a number that is equal to the number of CPUs on the SESA Manager machine. This value represents the number of background threads.

5 Edit the other property values as needed.
For descriptions of the property values, click **Help**.

6 Click **Apply**.

Modifying administrative settings

You can control the following behaviors of the Symantec management console by changing administrative settings:

■ How long a console session is idle before timing out

■ How often the Symantec management console is updated when you use auto-refresh

■ The character set that is used when you export reports

■ The number of event records that is initially downloaded for a report

■ How SESA responds to repeated failed logon attempts.
See "Setting up blacklisting for logon failures" on page 188.

To modify administrative settings

1   In the Symantec management console, on the Configurations view tab, in
     the left pane, expand **SESA 2.0** > **Manager Components Configurations**.

2   Select the configuration that you want to edit.

3   In the right pane, on the Administrative tab, next to Session idle interval, do
     one of the following:

     ■   To increase the time before the Symantec management console times
          out, type a higher value.
          Increase the value if you do not want the Symantec management
          console session to time out so quickly.

     ■   To decrease the time before the Symantec management console times
          out, type a higher value.
          Lower the value to increase security.

4   Next to Auto refresh update interval, type the value to control the frequency
     with which the Symantec management console display is refreshed.

5   If the SESA DataStore contains double-byte characters for languages such as
     Japanese, next to Export character set selector, check the check box.
     This configures the SESA Manager to export data in Unicode encoding,
     which lets you export reports with double-byte characters to HTML or CSV
     formats.
     See "Exporting reports" on page 269.

6   If the configuration that you are modifying is for a v2.0 SESA Manager, to set the number of event records that is initially downloaded for a report, change the value of the Number of report rows to load into console property. This option is not available for v1.1 SESA Manager configurations.

7   Click **Apply**.

Setting up blacklisting for logon failures

When there are repeated failed attempts to log on to the Symantec management console, it may indicate an attempt to break in to the system. SESA blacklists computers from which repeated failed logon attempts are made.

The Administrative tab lets you control how SESA responds to logon failures.

To set up blacklisting for logon failures

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0 > Manager Components Configurations**.

2   Select the configuration that you want to edit.

3   On the Administrative tab, to control how SESA handles blacklisting for logon failures, do the following:

Blacklist threshold time	Adjust the window of time during which failed logon attempts are accumulated.
	When the accumulated count is larger than the blacklist threshold count, the IP address from which the log ons are being attempted is added to the blacklist.
Blacklist threshold count	Specify the number of failed login attempts within the blacklist threshold time that causes an IP address to be placed on the blacklist.
Blacklist entry duration	Specify the length of time that the IP address will remain on the blacklist before it is automatically removed and log ons from the IP address are again permitted.

4   Click **Apply**.

Forwarding events to other event relays

By default, the event logger only inserts events into the SESA DataStore without doing other processing. Other components can process the inserted events and either correlate and generate new events or send the events to an external computer. The mechanism by which they do this is event forwarding.

To forward events to other event relays

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Components Configurations**.

2   Select the configuration that you want to edit.

3   In the right pane, on the Event Forwarding tab, click **Add**.

4   In the Event Forwarding dialog box, if you do not want the event forwarding that you specify to take effect at this time, check **Disable**.
    You can uncheck it later to enable event forwarding.

5   In the Name text box, type the name of the server that is running the event relay to which you want to forward events.

6 In the Destination URL text box, type the URL of the event relay or event sink to which you are forwarding events. Use one of the following formats:

To forward events using the HTTP protocol	https://<SESA MANAGER MACHINE NAME or IP ADDRESS>/sesa/servlet/<EVENTRELAY>
	For example, HTTPS://localhost/sesa/servlet/ EventLogger
To forward events to a folder that is common for all SESA Managers that are receiving forwarded events	FILE://<FOLDER>
	For example, FILE://c:\sesa\temp
To forward events to a specific servlet	FILE://%sesa%<FOLDER>
	For example, to forward to the EventLogger, the URL would be FILE://%sesa%EventLogger\batch

7 Click **Add** to specify the events that will be forwarded.

8 In the Filter dialog box, create a filter to be applied to the events that are forwarded.
If you do not make any changes, all events are forwarded by default.

Use the following descriptions as you make selections from the drop-down lists:

Event class	Select one of the following:
	■ Any: All event types are available in the Event type drop-down list. ■ Selection: Only the event types that belong to the selected event class are available in the drop-down list.
Event type	Select one of the following:
	■ Any: Events of all event types for the selected event class are forwarded. ■ Selection: Only events of the selected event type are forwarded.
Product	Select one of the following:
	■ Any: Events from all software features of all SESA-enable products are forwarded. ■ Selection: You can use the Software feature drop-down list to specify a software feature for this product: events from the selected software feature are forwarded.
Software feature	Select one of the following:
	■ Any: Events from all software features for the selected product are forwarded. ■ Selection: Only events from the selected software feature are forwarded.
Category	Select one of the following:
	■ Any: Events of any category are forwarded. ■ Selection: Only events that belong to the selected category are forwarded.
Severity	Select one of the following:
	■ Any: Events of all severities are forwarded. ■ Selection: Only events with the selected severity are forwarded.

9   Click **OK**.

10   To specify another set of events to be forwarded to this event relay, repeat steps 7 through 9.

11   In the Event Forwarding dialog box, if you want to forward additional information that is not defined in the event schema, check **Forward extra event information**.

12 When you have specified all of the events to be forwarded to the event relay, click **OK**.

13 To specify another event relay to which events will be forwarded, repeat steps 3 through 12.

14 When you have specified all of the event relays to which you want to forward events, click **Apply** to save your changes.

Forwarding alerts to other alert mechanisms

By default, alerts are logged to the SESA DataStore for the SESA Manager that you are configuring. You can specify other alert mechanisms, such as third-party alert mechanisms, to which alerts will be forwarded.

To forward alerts to other alert mechanisms

1 In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Components Configurations**.

2 Select the configuration that you want to edit.

3 In the right pane, on the Alert Forwarding tab, click **Add**.

4 In the Alert Forwarding dialog box, check **Disable** if you do not want the alert forwarding that you specify to take effect at this time.
You can uncheck it later to enable alert forwarding.

5 In the Name text box, type the name of the server that is running the alert sink to which you want to forward alerts.
The alert sink is the software component that receives events after they have been processed by the SESA Manager

6 In the Destination URL text box, type the URL for the alert sink or other alert mechanism. Use one of the following formats:

To forward alerts using the HTTP protocol	https://<SESA MANAGER MACHINE NAME or IP ADDRESS>/sesa/servlet/<ALERT MECHANISM>
	For example, HTTPS://localhost/sesa/servlet/ AlertLogger
To forward alerts to a folder that is common for all SESA Managers that are receiving forwarded alerts	FILE://<FOLDER>
	For example, FILE://c:\sesa\temp

To forward alerts to a specific servlet	FILE://%sesa%<FOLDER>
	For example, to forward to the SampleAlertSink, the URL would be FILE://%sesa%SampleAlertSink\batch

7   Click **OK**.

8   To add additional alert sinks, repeat steps 3 through 7.

9   Click **Apply**.

Configuring SNMP alert responses

When you create alert configurations, you can have an SNMP alert response generated when the alert is logged.

See "Creating an alert configuration based on an event" on page 285 and "Creating an alert configuration" on page 298.

Symantec provides Management Information Base (MIB) files for SNMP 1 and SNMP 2 so that you can view the SNMP traps in your preferred SNMP console. This is useful if you have tools that automatically check an SNMP host for specific events.

To use SNMP notifications, you must first install the SNMP MIB file that you want to use.

See the *Symantec Enterprise Security Architecture Implementation Guide*

To configure SNMP alert responses

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Components Configurations**.

2   Select the configuration that you want to edit.

3 In the right pane, on the SNMP tab, change the Host value to the IP address of the SNMP listener.

4 Change the Port value to the port number of the SNMP listener.

5 Next to VersionOne, do one of the following:

■ If you are using Version 1 MIBs, check the check box.

■ If you are using Version 2 MIBs, uncheck the check box.

6 Click **Apply**.

Scheduling SESA Manager LiveUpdate

LiveUpdate is the Symantec technology that lets installed Symantec products connect to a server automatically for program updates.

You can use the settings on the Manager Component Configurations LiveUpdate tab to schedule a LiveUpdate request for a new versions of the SESA Manager.

Note: Events are not generated when a SESA Manager LiveUpdate occurs.

To schedule LiveUpdate

1 In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Component Configurations**.

2 Select the configuration that you want to edit.

3 In the right pane, on the LiveUpdate tab, specify the date and time that the LiveUpdate is performed by clicking the ellipses (...) to the right of the DateTime value.

4 In the DateTime dialog box, do the following to set the date and time for LiveUpdate to run:

Month drop-down list   Select a month.

Year	Select a year.
Calendar	Select a day.
Date navigation buttons	The buttons below the calendar help you navigate:

■ Go to today–If you move to another month in the calendar, click the left button to return to today's date.

■ Go to current selection–If you select a date and then move in the calendar, click the right button to return to the selected date.

Time control	Click each section of the time control (hours, minutes, days, seconds) and use the arrows or type a number to increase or decrease the value.

5 Click **OK**.

6 On the LiveUpdate tab, do one or more of the following:

Retry interval	Specify how often to retry if the first attempt is not successful.
Random delay	Specify a random delay to be used to stagger update requests.
Enable	Check this check box to enable LiveUpdate to take place at the time scheduled on the LiveUpdate tab.
Use local time	Specify whether the local time should be used for scheduling purposes.

7 Click **Apply**.

Manager Master Heartbeat Configuration

The heartbeat functionality of SESA tracks the health of the SESA network. It provides near real-time status of SESA services on SESA-enabled computers. This information is stored in memory in the Master Heartbeat service, which is located on the SESA Manager that is specified as the master heartbeat service.

As shown in Figure 5-1, each SESA Manager has a heartbeat service. SESA Agents report their heartbeats to the heartbeat service. In each domain, one of the heartbeat services acts as the Master Heartbeat service. All the heartbeat services forward their heartbeat information to the Master Heartbeat service.

Figure 5-1 SESA Heartbeat

When a console requests heartbeat data, it gets it from its local SESA Manager by way of a subscription interface. The heartbeat service returns a set of baseline data and thereafter provides updates. The heartbeat service in turn subscribes to the Master Heartbeat service in order to provide this information.

See "Monitoring heartbeat for computers" on page 134.

There is one Master Heartbeat service per domain. When the first SESA Manager is installed in a domain, by default it is set to be a Master Heartbeat service. To see which SESA Manager is acting as the Master Heartbeat service, inspect the Heartbeat tab on the Domain properties dialog.

See "Viewing the master heartbeat service computer for the domain" on page 67.

To change the SESA Manager that acts as the Master Heartbeat service you modify the default Master Heartbeat Configuration. Because the heartbeat system is designed so that there can be only one master heartbeat service computer per domain, you can modify the default configuration; however, you cannot create a new configuration. Allowing only one default configuration ensures that all SESA Managers in the domain have the same configuration for the Master Heartbeat service.

Table 5-5 lists the tabs on which you can change settings for the Manager Master Heartbeat Configuration.

Table 5-5 Manager Master Heartbeat Configuration tabs

Tab	Description
General	Contains the name, description, and modification date of the configuration.
Master Heartbeat	Lets you specify the primary and secondary SESA Managers to be used as the master heartbeat servers.

You can view the status of the monitored services by displaying the Heartbeat Monitor view for a selected organizational unit.

See "Monitoring heartbeat for computers" on page 134.

Changing the Master Heartbeat service computer

By default, the Master Heartbeat service computer for the domain is the first SESA Manager installed to the domain.

If multiple SESA Managers are installed and designated as potential Master Heartbeat servers, you can select a different SESA Manager as the Master Heartbeat service computer.

If you do not manually change the Master Heartbeat service computer, it is possible for SESA to reassign the role of Master Heartbeat server through an election process.

See "How the Master Heartbeat service computer can be changed by an election" on page 199.

To change the Master Heartbeat service computer

You can manually assign a Master Heartbeat service computer by doing the following:

■ Assign the Primary and Secondary Master Heartbeat service computers.

■ If your environment is a multiple domain environment, give the SESA Manager that you configure as the Master Heartbeat service domain access to all domains where heartbeat will be monitored.

To assign the Primary and Secondary Master Heartbeat service computers

1 In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0 > Manager Master Heartbeat Configuration**.

2 Select the Default configuration.
   There can be only one Manager Master Heartbeat configuration. You cannot create a new Manager Master Heartbeat configuration.

3 In the right pane, on the Master Heartbeat tab, in the Primary Master Heartbeat service drop-down list, select the SESA Manager to serve as the Primary Master Heartbeat service computer.
   For a SESA Manager to appear in the list, it must be specified as a heartbeat server during installation.

4   In the Secondary Master Heartbeat service drop-down list, select the SESA
    Manager to serve as the Secondary Master Heartbeat service computer.

5   Click **Apply**.

**To give a Master Heartbeat service computer access to SESA Managers in
other domains**

1   In the Symantec management console, on the System view tab, in the left
    pane, expand the Organizational Units navigation tree until you can select
    the organizational unit that contains the computer that you have made the
    Primary Master Heartbeat service computer.

2   In the right pane, select the computer.

3   On the Selection menu, click **Properties**.

4   On the Domain Access tab, grant domain access to any domains for which
    heartbeat will be monitored.
    See "Adding domain access to a SESA Manager" on page 128.

5   To give domain access to the Secondary Master Heartbeat computer, repeat
    steps 1 through 4.

How the Master Heartbeat service computer can be changed by an election

As circumstances in the SESA deployment change, SESA can automatically
change the Master Heartbeat service computer through a process known as
election. The election is designed to allow for routing problems, rather than to
conserve network bandwidth. The highest priority in an election is to let the
computers form a consensus as to which computer should be the Master
Heartbeat service computer.

An election is a selection between two configured, ordered candidates. There is a
primary candidate and a secondary candidate.

An election occurs when a SESA Manager perceives a discrepancy between the
configured Master Heartbeat service and the acting Master Heartbeat service.
This can happen when a SESA Manager cannot contact the master (if, for
example, the master goes down) or when a SESA Manager gets a new
configuration and believes that the acting master should no longer be the
master.

Any computer can initiate the election process by making a request to the
computer it believes should be the master. That computer runs an election, if it
is not already doing so, or has not recently done so.

A computer that is running an election queries all heartbeat services. It assumes the role of the Master Heartbeat service if it receives a majority of responses that indicate that it is the preferred master. The following are the determining factors:

■ Electors prefer a computer that can be contacted over a computer that cannot be contacted in all cases.

■ Electors prefer a primary over a secondary.

■ Clients prefer a secondary over a computer that has the master role, but is not configured as either a primary or a secondary candidate.

If there are no configured candidates, the election fails, with the result that any computer that currently has the master role keeps it. If no computer has the master role, then the heartbeat computer is nonfunctional.

Manager Connection Configurations

Manager Connection Configurations let you configure failover for SESA Managers.

Failover is the ability of SESA components to automatically switch to designated secondary resources if the primary resource fails or terminates abnormally.

You can configure the following failover scenarios:

■ SESA Manager to SESA DataStore

■ SESA Manager to SESA Directory

After you configure failover, you can distribute the configurations to SESA Managers that require failover protection.

See "Distributing configurations" on page 172.

Table 5-6 lists the tabs on which you can change the failover settings for the SESA Manager.

Table 5-6   Manager Connection Configurations tabs

Tab	Description
General	Contains the name, description, and modification date of the configuration.

Tab	Description
SESA Directory Failover	Lets you specify the primary SESA Directory and control how failover takes place when that SESA Directory becomes unavailable.
	See "Configuring SESA Manager to SESA Directory failover" on page 201.
SESA DataStore Failover	Lets you specify the primary SESA DataStore and an ordered list of SESA DataStores to which the SESA Manager can failover if the primary SESA DataStore becomes unavailable.
	See "Configuring SESA Manager to SESA DataStore failover" on page 205.

Configuring SESA Directories

Failover is the ability of the SESA Manager to automatically switch to a standby SESA Directory if the primary SESA Directory fails or terminates abnormally.

The SESA Directory Failover tab of the Manager Connection Configurations lets you do more than configure SESA Directory failover.

You can use this tab for either of the following:

■ Configuring SESA Manager to SESA Directory failover

■ Logging SESA Directory connection failures

Configuring SESA Manager to SESA Directory failover

You configure SESA Directory Failover to identify a primary SESA Directory and specify how failover should occur, including the number of retry attempts, time between retry attempts, and whether log messages are generated.

The SESA Directories to which you failover must be installed and configured before you complete the SESA Directory failover configuration. These Directories should be read-only replicas.

Note: Read-only replica Directories provide access to the SESA Manager but cannot be edited. When a failover occurs, a message notifies users that the domain is using a read-only replica and that modifications cannot be made.

For information on installing replica Directories, see the section on setting up SESA Manager-to-Directory failover in the *Symantec Enterprise Security Architecture Implementation Guide*.

To configure SESA Manager to SESA Directory failover

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0 > Manager Connection Configurations**.

2   Select the configuration that you want to edit.

3   In the right pane, on the SESA Directory Failover tab, next to the Primary Directory text box, click the browse button (…).

4   In the Find Directories dialog box, in the Available Directories list, select a directory to be the Primary Directory.

5   Click **OK**.

6   On the SESA Directory Failover tab, check **Enable automatic Directory failover**.

7   Under Primary Directory Failover, do the following:

■   In the Reconnect attempts before failover text box, type the number of times that the SESA Manager should attempt to connect to the Primary Directory before it fails over to the SESA Directory with the nearest LDAP suffix.

■   In the Seconds between reconnect attempts text box, type the time interval in seconds that will elapse between each reconnect attempt.

8 Under Secondary Directory Failover, do the following:

- In the Reconnect attempts before failover text box, type the number of times that the SESA Manager should attempt to connect to the initial Secondary Directory before it fails over to the next SESA Directory.

- In the Seconds between reconnect attempts text box, type the time interval in seconds that will elapse between each reconnect attempt.

9 To have the SESA Manager automatically attempt to failback to the primary SESA Directory, do the following:

- Ensure that Enable automatic failback recovery is checked.

- In the Seconds between failback connection attempts text box, type the number of seconds that should elapse between attempts to failback.

10 Click **Apply**.

Logging SESA Directory connection failures

A connection failure event can cause a failover; however, connection failures are a broader category of events. They can also occur any time there is a problem with the connection between the SESA Manager and the SESA Directory, regardless of whether the connection failure causes failover, or whether failover is enabled.

To specify how SESA Directory connection failures are logged

1 On the Configurations view tab, in the left pane, expand **SESA 2.0 > Manager Connection Configurations**.

2 Select the configuration that you want to edit.

3 In the right pane, on the SESA Directory Failover tab, scroll to the bottom of the tab.

4 To configure what happens when connection failure events occur, do one or more of the following:

Write an event to the SESA DataStore when a connection failure occurs	To log a SESA event when there is a connection failure, check here.
Write an event to the system log when a connection failure occurs	To log a system event when there is a connection failure, check here.
Generate an SNMP trap when a connection failure occurs	To generate an SNMP trap when there is a connection failure, check here.

Generate a Multiple Connection Failure Event	To generate a single event when multiple connection failures occur, do the following:
	■ In the Number of connection failures that must occur text box, type a number.
	■ In the Time period (seconds) of connection failures text box, type a time period.
	When the specified number of failovers occurs within the specified time period, an event is logged.

5 Click **Apply**.

Configuring SESA DataStores

Failover is the ability of the SESA Manager to automatically switch to a standby SESA DataStore if the primary SESA DataStore fails or terminates abnormally.

The SESA DataStore Failover tab of the Manager Connection Configurations lets you do more than configure SESA DataStore failover.

You can use this tab for any of the following:

■ Identifying the primary SESA DataStore

■ Configuring SESA Manager to SESA DataStore failover

■ Logging SESA DataStore connection failures
  In addition to configuring the logging of connection failures, you can also specify users to be notified in the case of SESA DataStore connection failures.

Identifying the primary SESA DataStore

When additional SESA DataStores are added to a SESA implementation, you may want to specify a new primary SESA DataStore to which events and alerts will be logged.

You can do this on the SESA DataStore Failover tab without actually configuring SESA Manager to SESA DataStore failover.

To identify the primary SESA DataStore

1 In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Connection Configurations**.

2 Select the configuration that you want to edit.

3   In the right pane, on the SESA DataStore Failover tab, next to the Primary
     DataStore text box, click the browse button (…).

4   In the Find DataStores dialog box, in the Available DataStores list, select a
     SESA DataStore to be the Primary DataStore.

5   Click **OK**.

6   On the SESA DataStore Failover tab, click **Apply**.

Configuring SESA Manager to SESA DataStore failover

You configure SESA DataStore Failover to identify a primary SESA DataStore
and provide an ordered list of failover SESA DataStores to which the SESA
Manager can connect if the primary SESA DataStore fails.

The SESA DataStores that you designate for failover should be dedicated SESA
DataStores, rather than SESA DataStores that are also being used to forward
events in a distributed configuration.

See the section on setting up SESA Manager-to-DataStore failover in the
Symantec Enterprise Security Architecture Implementation Guide.

To configure SESA Manager to SESA DataStore failover

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Connection Configurations**.

2   Select the configuration that you want to edit.

3   In the right pane, on the SESA DataStore Failover tab, next to the Primary DataStore text box, click the browse button (...).

4   In the Find DataStores dialog box, in the Available DataStores list, select a DataStore to be the Primary DataStore.

5   Click **OK**.

6   On the SESA DataStore Failover tab, check **Enable automatic DataStore failover**.

7   Under Primary DataStore Failover, do the following:

   ■   In the Reconnect attempts before failover text box, type the number of times that the SESA Manager should attempt to connect to the Primary DataStore before it fails over to the first directory in the Secondary DataStores list.

   ■   In the Seconds between reconnect attempts text box, type the time interval in seconds that will elapse between each reconnect attempt.

8 Under Secondary DataStore Failover, do the following:

■ In the Reconnect attempts before failover text box, type the number of times that the SESA Manager should attempt to connect to the initial Secondary DataStore before it fails over to the next SESA DataStore in the Secondary DataStores list.

■ In the Seconds between reconnect attempts text box, type the time interval in seconds that will elapse between each reconnect attempt.

9 To create an ordered list of Secondary Failover DataStores, do the following:

■ Below the Secondary (failover) DataStores list, click **Add**.

■ In the Find DataStores dialog box, in the Available DataStores list, select the DataStore that you want to make the first failover SESA DataStore and then click **Add**.
You can also double-click a SESA DataStore to add it.

■ Continue selecting and adding SESA DataStores in the order in which you want them to be used for failover.

■ Click **OK**.
The SESA DataStores that you selected are added to the Secondary (failover) DataStores list on the SESA DataStore Failover tab.

■ To change the order of the SESA DataStores, on the SESA DataStore Failover tab, select a SESA DataStore and use the Move Up and Move Down arrows to the right of the list to move the SESA DataStore relative to the other SESA DataStores in the list.

10 To have the SESA Manager automatically attempt to failback to the primary SESA DataStore, do the following:

■ Ensure that Enable automatic failback recovery is checked.

■ In the Seconds before a failback connection attempt text box, type the number of seconds that should elapse between attempts to failback.

11 Click **Apply**.

Logging SESA DataStore connection failures

A connection failure event can cause a failover; however, connection failures are a broader category of events. They can also occur any time there is a problem with the connection between the SESA Manager and the SESA DataStore, regardless of whether the failure causes failover, or whether DataStore failover has been configured.

Log SESA DataStore connection failures

The SESA DataStore Failover tab lets you do the following:

■ Specify how connection failures are logged.

A connection failure event can cause a failover; however, connection failures are a broader category of events. They can also occur any time there is a problem with the connection between the SESA Manager and the SESA DataStore, regardless of whether the failure causes failover, or whether DataStore failover has been configured.

■ Notify users of connection failure events

To specify how SESA DataStore connection failures are logged

1 On the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Connection Configurations**.

2 Select the configuration that you want to edit.

3 In the right pane, on the SESA DataStore Failover tab, scroll to the bottom of the tab.

4 To configure what happens when connection failure events occur, do one or more of the following:

Write an event to the SESA DataStore when a connection failure occurs	To log a SESA event when there is a connection failure, check here.
Write an event to the system log when a connection failure occurs	To log a system event when there is a connection failure, check here.
Generate an SNMP trap when a connection failure occurs	To generate an SNMP trap when there is a connection failure, check here.
Generate a Multiple Connection Failure Event	To generate a single event when multiple connection failures occur, do the following: ■ In the Number of connection failures that must occur text box, type a number. ■ In the Time period (seconds) of connection failures text box, type a time period. When the specified number of failovers occurs within the specified time period, an event is logged.

5 Click **Apply**.

To notify users of connection failure events

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Connection Configurations**.

2   Select the configuration that you want to edit.

3   In the right pane, on the SESA DataStore Failover tab, configure the primary and failover systems as described in "Configuring SESA Manager to SESA DataStore failover" on page 205.

4   Below the Secondary (failover) DataStores list, click **Out of Band Notification**.

5   Do one of the following:

■   To have a single notification sent when a connection failure occurs, click **Notify users of connection failure only once**.

■   To have a message sent repeatedly to the user at a time interval that you specify, click **Notify users of connection failure repeatedly using the specified time period**, and then, in the Time period, in seconds, between out of band notifications text box, type a time.

6   Under Users to notify during connection failure, click **Add**.

7   In the Find Users dialog box, do one of the following:

■   In the Available users list, select a user.

■   If you cannot locate the user that you want, on the left side of the dialog box, type search criteria, click **Start Search**, and then, in the Available users list, select a user.

8   To check the notification settings of the user, click **Properties**.

9   To add the user to the Selected Users list, click **Add**.

10 Continue selecting and adding users to be notified.

11 Click **OK**.

12 In the Out of Band Notification dialog box, click **OK**.

Agent Connection Configurations

Agent Connection Configurations let you configure SESA Agent to SESA Manager failover.

Failover is the ability of SESA components to automatically switch to designated secondary resources if the primary resource fails or terminates abnormally.

After you configure failover, you can distribute the configurations to computers that require failover protection.

See "Distributing configurations" on page 172.

Table 5-7 lists the tabs on which you can change the failover setting for the SESA Agent.

Table 5-7   Agent Connection Configurations tabs

Tab	Description
General	Contains the name, description, and modification date of the configuration.
SESA Manager Failover	Lets you specify the primary SESA Manager and an ordered list of SESA Managers to which the SESA Agent can failover if the primary SESA Manager becomes unavailable.

Configuring SESA Agent to SESA Manager failover

You configure SESA Manager failover to identify a primary SESA Manager and provide an ordered list of failover SESA Managers to which the SESA Agent can connect if the primary SESA Manager fails.

See the section on setting up SESA Agent-to-Manager failover in the *Symantec Enterprise Security Architecture Implementation Guide*.

To configure SESA Agent to SESA Manager failover

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Agent Connection Configurations**.

2   Select the configuration that you want to edit.

3   In the right pane, on the SESA Manager Failover tab, next to the Primary Manager text box, click the browse button (...).

4   In the Find Computers dialog box, do one of the following:

■   To proceed without modifying the Available computers list, select a computer to be the primary manager, and then continue at step 6.

The Available computers list shows all SESA Managers for the domain, up to the number of computers indicated by the Maximum search count text box.

■ To modify the Available computers list by specifying search criteria, do the following:

Look in	Identifies the domain. You cannot change this value.
Computer name	Type a computer name.
	You can specify a partial computer name that contains one or more asterisks. For example: *dev*
	All computers with names that contain this string are returned.
SESA Managers only	This check box is checked by default and cannot be changed.
Maximum search count	Type a number to reduce or increase the number of computers that are returned by the search.
Start search.	To start the search, click here.
	The Available computers list is revised based on the search criteria.
Stop search.	To stop the search before it is complete, click here.

In the revised Available computers list, select one or more computers.

5 Click **OK**.

6 On the SESA Manager Failover tab, check **Enable automatic Manager Failover**.

7 Under Primary Manager Failover, do the following:

■ In the Reconnect attempts before failover text box, type the number of times that the SESA Agent should attempt to connect to the Primary Manager before it fails over to the first SESA Manager in the Secondary Managers list.

■ In the Seconds between reconnect attempts text box, type the time interval in seconds that will elapse between each reconnect attempt.

8 Under Secondary Manager Failover, do the following:

■ In the Reconnect attempts before failover text box, type the number of times that the SESA Agent should attempt to connect to the initial Secondary Manager before it fails over to the next computer in the Secondary Manager list.

■ In the Seconds between reconnect attempts text box, type the time interval in seconds that will elapse between each reconnect attempt.

9   To create an ordered list of failover SESA Managers, do the following:

- Below the Secondary (failover) Managers list, click **Add**.

- In the Find Computers dialog box, do one of the following:
  In the Available computers list, select the computer that you want to make the first failover Manager.
  If you cannot immediately find the computer that you want, on the left side of the dialog box, enter search criteria, click **Start Search**, and then, in the Available computers list, select a computer.

- Click **Add**.

- Continue selecting and adding computers in the order in which you want them to be used for failover.

- Click **OK**.
  The computers that you selected are added to the Secondary (failover) Managers list.

- To change the order of the failover SESA Managers, select a SESA Manager and use the Move Up and Move Down arrows to the right of the list to move the SESA Manager relative to the other SESA Managers in the list.

10 To have the SESA Agent automatically attempt to failback to the primary SESA Manager, do the following:

- Ensure that Enable automatic failback recovery is checked.

- In the Seconds between failback connection attempts text box, type the number of seconds that should elapse between attempts to failback.

- In the Maximum failback retry period text box, type the maximum amount of time to wait before all failback attempts end and a new permanent primary SESA Manager is established.
  After a new permanent primary SESA Manager is established, if you want to reset the connection between the SESA Agent and the original SESA Manager, you must do it manually, using the Primary SESA Manager drop-down list.

11 To generate a single event when multiple connection failures occur, under Generate a Multiple Connection Failure Event, do the following:

- In the Number of connection failures that must occur text box, type a number.

- In the Time period (seconds) of connection failures, type a time period.
  When the specified number of failovers occurs within the specified time period, an event is logged.

If you enable SESA Manager failover, connection failure events occur with the same frequency as failovers, based on the values for reconnect attempts. If you do not enable failover, connection failures can still occur. The values you provide here determine how often events are logged for these occurrences.

12 Click **Apply**.

Agent Configurations

Agent configurations describe how SESA Agents behave and how they communicate with their corresponding SESA Managers.

Table 5-8 lists the tabs on which you can change settings for Agent Configurations.

These include what primary and secondary server to connect to, as well as how to get configuration information and report inventory, and how these computers should receive LiveUpdate information.

Table 5-8   Agent Configuration tabs

Tab	Description
General	Contains the name, description, and modification date of the configuration.
Common	Controls settings that are common to all SESA Agent services.
	This tab lets you specify the location of SESA Manager servlets, the batch logging interval, and whether debug is used.
	The other settings on this tab are only used when a product is installed that contains a 1.1 SESA Agent
Configuration	Lets you specify how often the SESA Agent Configuration Provider should check with its SESA Manager for configuration updates.
	This value is independent of using Distribute to send configurations to the SESA Agent directly through the Command Servlet. This setting refers to how long the client waits before asking for new configurations, if it is not contacted sooner.
	See "Setting the configuration poll time" on page 216.

Tab	Description
Inventory	Lets you configure the SESA Agent Inventory Provider to report inventory information for each SESA Agent.
	This inventory contains information as to what components are installed, and what version of those components reside on the SESA Agent. You can set how often to report inventory, and how long to wait between failed inventory attempts.
State	Lets you configure the SESA Agent State Provider to report state information for all SESA Agent providers.
	Each provider is given the opportunity to report its operational state to its SESA Manager. This operational state includes information such as what SESA Manager it is currently connected to, what its starting mode is, and what configuration it is currently using.
Logging	Manages the SESA Event Logging Provider so that all events logged through the SESA Agent are sent reliably to its SESA Manager. The logging provider stores events locally if it cannot forward them immediately to its SESA Manager.
	You can specify information such as what port to listen on, what servlet to contact on the SESA Manager, and how to cache events before sending them to the SESA Manager. Many of these settings control how events are forwarded to the SESA Manager.
	If you change the Logging Servlet value to a value that is incorrect, you may not be able to forward events to the SESA Agent's SESA Manager.
LiveUpdate	Lets you schedule a one-time LiveUpdate for the SESA Agent, as well as several retry and delay settings related to running a LiveUpdate session on the SESA Agent.
	See "Scheduling SESA Agent LiveUpdate" on page 217.
Heartbeat	Lets you enable and configure heartbeat for critical and non-critical services.
	See "Configuring SESA Agent heartbeat" on page 219.

Setting the configuration poll time

You can control the timing of the distribution of configurations by setting the configuration poll time. This lets you control the flow of network traffic rather than having all computers retrieve their configurations at the same time.

To set the configuration poll time

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0 > Agent Configurations**.

2   Select the configuration that you want to edit.

3   In the right pane, on the Configuration tab, set the desired value for the Config poll time.

This is the interval in minutes in which the SESA Agent automatically requests a new configuration from the configuration servlet on its SESA Manager. The maximum value is 10080 minutes. The minimum value is 1.

4   Click **Apply**.

Scheduling SESA Agent LiveUpdate

LiveUpdate is the Symantec technology that lets installed Symantec products connect to a server automatically for program updates.

You can use the settings on the Agent Configuration LiveUpdate tab to schedule LiveUpdate requests for new versions of the SESA Agent.

To schedule SESA Agent LiveUpdate

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Agent Configuration**.

2   Select the configuration that you want to edit.

3   In the right pane, on the LiveUpdate tab, schedule the date and time that LiveUpdate is performed by clicking the ellipses (...) to the right of the DateTime value.

4   In the DateTime dialog box, do the following to set a date and time for
     LiveUpdate to run:

Month drop-down list	Select a month.
Year	Select a year.
Calendar	Select a day.
Date navigation buttons	The buttons below the calendar help you navigate:

 ■ Go to today–If you move to another month in the calendar, click the left button to return to today's date.

 ■ Go to current selection–If you select a date, and then move in the calendar, click the right button to return to the selected date.

| Time control | Click each section of the time control (hours, minutes, days, seconds) and use the arrows or type a number to increase or decrease the value. |

5   Click **OK**.

6   On the LiveUpdate tab, do one or more of the following:

| Retry interval | Specify how often to retry if the first attempt is not successful. |
| Random delay | Specify a random delay to be used to stagger update requests. |

Enable	Check this check box to enable LiveUpdate to take place at the time scheduled on the LiveUpdate tab.
Use local time	Specify whether the local time should be used for scheduling purposes.

7 Click **Apply**.

Configuring SESA Agent heartbeat

SESA includes a heartbeat service that provides near real-time status of SESA services on SESA-enabled computers. This heartbeat information is stored in the Master Heartbeat server, which is located in a SESA Manager.

To identify the SESA Manager that is acting as the Master Heartbeat server, see "Viewing the master heartbeat service computer for the domain" on page 67.

To view the results of heartbeat monitoring, see "Monitoring computers" on page 134.

SESA Agent heartbeat for the critical services on your SESA Manager is enabled by default.

Note: Version 1.1 SESA Agents do not support heartbeat; do not use this tab when configuring 1.1 SESA Agents.

Configure SESA Agent heartbeat

To configure SESA Agent heartbeat, you do the following:

■ Modify the SESA Agent heartbeat settings.

■ Add services to the list of the critical services that are monitored.

To modify the SESA Agent heartbeat settings

1 In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0 > Agent Configurations**.

2 Select the configuration that you want to edit.

3 In the right pane, on the Heartbeat tab, ensure that Enable heartbeat service is checked.

4 Under Critical Services, do one or more of the following:

Enable critical service heartbeat	Check this option if you want heartbeat monitoring to occur for services in the critical service list.
Log critical service heartbeat status changes	Check this option if you want log messages to be generated when there is a change in the status of services in the critical services list.
Checkin interval (minutes)	Type the interval, in minutes, between heartbeat monitor checkins.
Critical services list	Lists the services that you have identified as critical. Each entry includes the product name, software feature name, and a description.
	To add a service to the critical services list, click **Add**.
	To remove a service from the critical services list, select it, and then click **Remove**.

5   Under Non-critical services, do one or more of the following:

Enable non-critical service heartbeat	If you want heartbeat monitoring to occur for services that are not in the critical service list, check here.
Log non-critical service heartbeat status changes	If you want log messages to be generated when there is a change in the status of services that are not in the critical services list, check here.
Checkin interval (minutes)	Type the interval, in minutes, between heartbeat monitor checkins for non-critical services.

6   Click **Apply**.

To add services to the critical services list

1   In a selected Agent Configuration, on the Heartbeat tab, below the list of critical services, click **Add**.

2   In the Look in drop-down list, select the software product for which you want to monitor software features.

3   In the Available software features list, select the software features that you want to monitor.

4   Click **Add**.

   The selected services are added to the Selected software features list on the Heartbeat tab.

5   To remove a service from the Selected software features list, select it, and then click **Remove**.

6   Click **OK**.

7   On the Heartbeat tab, complete the configuration of the Heartbeat service, and then click **Apply**.

Product Installation Service configurations

Through the use of integration packages, you can install SESA-integrated security products once on a SESA Manager that acts as the SESA master service computer and then deploy selected products to other SESA Manager computers.

The Product Installation Service configurations control how and when SESA integrated packages are installed to SESA Managers, the SESA Directory, and SESA DataStores.

They perform the following functions:

■   Install SESA integration packages to SESA Managers and their connected SESA Directories and SESA DataStores.
   SESA integrated packages include product identifiers, default product configurations and settings, event schemas, WAR files, and Help for the product.

■   Register successfully installed SESA integration packages in the SESA Directory.

■   Uninstall SESA integration packages from SESA Managers and their connected SESA Directories and SESA DataStores.

■   Monitor SESA integration packages that have been registered to the domain against those that are actually installed.

Table 5-9 lists the tabs on which you can change the properties of the Product Installation Service configurations:

Table 5-9   Product Installation Service tabs

Tab	Description
General	Contains the name, description, and modification date of the configuration.
Web Restart Period	Lets you specify when Web services are restarted after a SESA integrated product package is deployed or removed.
Deploy Period	Lets you specify when the product installation service checks to see if new SESA integrated product packages need to be deployed, and performs the deployment.
MasterSIPI	Lets you specify the SESA Manager that hosts the master SIPI service for the domain.
	The master SIPI service is responsible for deploying and removing SESA integrated packages to the SESA Directory and SESA DataStores in the domain.
	You should install all SESA integration packages to the SESA Manager that you select here.
Delete User Data	Lets you specify whether the SESA Integration Wizard removes product events when you remove a SESA integration package (SIP) for a product.
	You cannot remove a product SIP without also removing product events.

Modifying Product Installation Service configurations

Modifying Product Installation Service configurations affects the way SESA-integrated products are installed and the behavior of the Deploy/Remove SESA Manager Extensions Wizard.

To modify Product Installation Service configurations

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0 > Product Installation Service**.

2   Select the configuration that you want to edit.

3 In the right pane, on the Web Restart Period tab, to specify the schedule for restarting of services, change the value of the Restart time property.

4 On the Deploy Period tab, do the following:

- Specify the time schedule for the deploying SESA integration packages by changing the value of the Deploy time property.
  The default value is 0 0 20 ? * 7,1.
  This is a cron expression that translates to 2:00 PM on Saturdays and Sundays.
  For a description of how to write cron expressions, see the online Help.

- If you want the Product Installation service to randomly check for new SESA packages, for the Staggered deployment property, type a value of 1.

5 On the MasterSIPI tab, in the Master SIPI Service drop-down list, select the SESA Manager to host the master SIPI service. This service deploys and removes SESA integration packages.
By default, this text box is blank because the SESA Manager that hosts the master SIPI service is selected automatically. If the default SESA Manager is not operational, SESA integration packages cannot be deployed until you select another SESA Manager here.
If this text box is blank, you can determine which SESA Manager is hosting the master SIPI service by viewing the SIP Servlet Web Page. See the section on verifying the master SIPI service in the *Symantec Enterprise Security Architecture Implementation Guide.*

6   To remove product events when the SESA Integration Wizard is used to
     remove the SESA integration package for a product, on the Delete User Data
     tab, next to Delete user data, check the check box.
     This check box must be checked to successfully remove SESA-integrated
     products.

7   Click **Apply**.

Manager Event Exclusion Configurations

Manager Event Exclusion Configurations let you filter events before they are
forwarded to the SESA DataStore.

Table 5-10 describes the tabs of the Manager Event Exclusion Configurations.

Table 5-10   Manager Event Exclusion Configurations tabs

Tab	Description
General	Contains the name, description, and modification date of the configuration.
Event Exclusions	Lets you add event exclusion rules to an event exclusion configuration.

You exclude unwanted events by doing the following:

■   Creating event exclusion rules

■   Creating event exclusion configurations

■   Specifying event exclusion configuration associations

■   Adding event exclusion rules to an event exclusion configuration

■   Distributing event exclusion configurations

Creating event exclusion rules

Event exclusion rules identify events that you do not want to have forwarded to the SESA DataStore. By excluding events, you control the rate of growth of the SESA DataStore.

Note: If excluded events are part of an alert configuration, they are still inserted into the SESA DataStore so that the alerting system will work.

If excluded events are used in conjunction with Event Forwarding, they are not logged in the SESA DataStore; however, they are forwarded based on the Event Forwarding filter.

Before you create event exclusion rules, study the event data that is being logged by your security products to identify data that is not relevant to your product monitoring. Examine the columns, classes, and values that characterize these unwanted events so that you can use them in your event exclusion rules.

Warning: You should consider making your event exclusion rules product-specific. If you do not, you may inadvertently exclude events from products that you do not manage.

For example, if you create an event exclusion rule that excludes all informational events but do not specify a product in the rule, the rule excludes all informational events from all products.

To create an event exclusion rule

1   In the Symantec management console, on the Configurations view tab, in
    the left pane, expand **SESA 2.0** and click **Manager Event Exclusion
    Configurations**.

    In the right pane, existing event exclusion rules are displayed at the top of
    the pane, and the details of the selected event exclusion rule are displayed at
    the bottom.
    If no event exclusion rules have been configured, the right pane is blank.

2   On the Selection menu, click **New > Event Exclusion**.
    The bottom of the right pane is cleared to let you create an event exclusion.

3   In the Event exclusion name text box, type a unique name for the new event
    exclusion rule.

4   In the Description text box, type a description.
    The Description text box is optional.

5   Do one of the following:
    ■   To make the event exclusion rule effective as soon as you associate it
        with a configuration and distribute the configuration, check **Enable**.
    ■   To configure the event exclusion rule but not use it immediately,
        uncheck **Enable**.
        To use the event exclusion rule later, you can edit it and enable it.

6   To add a condition to the rule, click **Add**.

A row is added to the condition table above the buttons.

If you do not see the condition table, increase the size of the Symantec management console window or resize the bottom pane.

Use this row to create a condition that is applied to incoming events. The Event Class, Event Column, Operator, and Value that you specify determine the events that are excluded from the SESA DataStore.

7   Under Event Class, click to activate the field, and then use the drop-down list to select an event class to be used in the rule.

8   Under Event Column, select an event column.

The available event columns are determined by the event class that you selected in step 7.

9   Under Operator, select an operator.

The available operators are determined by the event column that you selected in step 8.

The operator determines how the event class, event column, and value that you specify are handled in the event exclusion rule.

10   Under Value, click the browse button to display an appropriate dialog box for selecting a value.

Your previous selections determine what kind of dialog box is displayed.

For example, if you select Session Event, Event Date, and Between, the browse button in the Value column displays a calendar for you to use to specify a date range. Click **Help** on the dialog box to learn how to specify the dates.

11   To add additional conditions, repeat steps 6 through 10.

12   If you added multiple conditions to the event exclusion rule, you must specify which conditions will be used when the rule is applied.

Do one of the following:

■   To exclude only events that meet all of the conditions, click **Meet all of the above conditions (AND)**.

To understand the results of this selection, consider the example of an event exclusion rule that has a condition that excludes events with an event type of Login and a second condition that excludes events for the product SESA System.

If you select the AND option, the only events that are excluded are those that are login events to the SESA System. SESA system events other than login events and logins to products other than SESA System will continue to be forwarded to the SESA DataStore.

- ■ To exclude events that meet any of the conditions, click **Meet any of the above conditions (OR)**.

  Using the same example, if you select the OR option, all events that are login events, regardless of product, and all events that are generated by SESA System are excluded.

13 Optionally, do either of the following:

- ■ To remove a condition, click to the left of the appropriate row in the table to select it, and then click **Remove**.

- ■ To remove all conditions, click **Remove All**.

14 Do one of the following:

- ■ To save all changes to the event exclusion rule, click **Apply**.

  If you selected the OR option in step 11, a message warns you that you can unintentionally exclude a large range of events. To complete the Apply, click **OK**.

- ■ To discard changes you have made since you last saved the event exclusion rule, click **Reset**.

Editing an event exclusion rule

You can edit event exclusion rules to add, modify, or remove conditions, to change the way the conditions are applied, and to enable or disable the rules.

Edit an event exclusion rule

You can access the event exclusion editor in two ways:

- ■ From the right pane, with Manager Event Exclusion Configurations selected.

  Use this method when you want to choose from all event exclusion rules.

- ■ In the Event Exclusion Properties dialog box, which you display from the Event Exclusion tab of an event exclusion configuration.

  Use this method when you are only interested in the event exclusion rules used by a single configuration.

Once in the editor, make your changes using the same methods that you used when you created the event exclusion rule.

See "Creating event exclusion rules" on page 226.

To edit event exclusion rules in the right pane

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** and click **Manager Event Exclusion Configurations**.

2   In the right pane, from the list of event exclusion rules at the top of the pane, select the rule that you want to edit.
    The bottom of the right pane shows the details of the selected event exclusion rule.

3   Make changes as necessary:
    - To enable a disabled rule, check **Enable**; to disable an enabled rule, uncheck Enable.
    - To modify a condition, in the list of conditions, click on a parameter and then use the drop-down list to make your change.
      If a change invalidates other parameters of the condition, those fields are cleared and you must make new choices.
    - To add a condition, click **Add**.
    - To remove a condition, select it and click **Remove**.
    - To change how the conditions are evaluated, on the right below the conditions list, change the radio button selection.

4   Do one of the following:
    - To save your changes, click **Apply**.
    - To reset the conditions to their values before you started to edit, click **Reset**.

5   To edit additional event exclusion rules, repeat steps 2 through 4.

To edit event exclusion rules using the Event Exclusion Properties dialog box

1   On the Configurations view tab, in the left pane, expand **SESA 2.0 > Manager Event Exclusion Configurations**, and then click the configuration that contains the event exclusion rule that you want to edit.

2 On the Event Exclusions tab, select an event exclusion rule, and then click
Properties.

3 In the Event Exclusion Properties dialog box, make changes as necessary:

- To enable a disabled rule, check **Enable**; to disable an enabled rule,
  uncheck Enable.

- To modify a condition, in the list of conditions, click on a parameter
  and then use the drop-down list to make your change.
  If a change invalidates other parameters of the condition, those fields
  are cleared and you must make new choices.

- To add a condition, click **Add**.

- To remove a condition, select it and click **Remove**.

- To change how the conditions are evaluated, on the right below the
  conditions list, change the radio button selection.

4 Do one of the following:

- To save your changes and close the Event Exclusion Properties dialog
  box, click **OK**.

- To back out of your changes, click **Cancel**.
  Clicking Cancel closes the Event Exclusion Properties dialog box.

- To save your changes and keep the Event Exclusion Properties dialog
  box open for continued editing of this event exclusion rule, click **Apply**.

5 To edit additional event exclusion rules, click **OK** or **Cancel** to close the
Event Exclusion Properties dialog box, and then repeat steps 2 through 4.

Deleting an event exclusion rule

You can delete an event exclusion rule that you are no longer using in a configuration.

Note: If you delete an event exclusion rule that is in use by an event exclusion configuration, it is also removed from the configuration.

To delete an event exclusion rule

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** and click **Manager Event Exclusion Configurations**.

2   In the right pane, select the event exclusion rule that you want to delete.

3   In the Selection menu, click **Delete**.

4   When you are asked to confirm that you want to delete the event exclusion, select one of the following.

   ■   Yes: Delete the event exclusion rule.
       The event exclusion rule is removed from the list in the right pane.
       If the rule was in use by a configuration, it is also removed from the configuration.

   ■   No: Do not delete the configuration.

Creating event exclusion configurations

You use Manager Event Exclusion configurations to distribute event exclusion rules to SESA Managers.

You can use the default Manager Event Exclusion configuration, or you can create additional configurations so that you can combine event exclusion rules to meet your needs.

To create a Manager Event Exclusion configuration

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** and click **Manager Event Exclusion Configurations**.

2   On the Selection menu, click **New** > **Configuration**.

3   On the first screen of the Event Exclusion Configuration Wizard, click **Next**.

4   In the General panel, do the following:

■   In the Event Exclusion Configuration name text box, type a name.

■   In the Description text box, type a description.
    The description is optional.

■   Click **Next**.

5   In the Event Exclusions Lists panel, do one of the following:

■   To add event exclusion rules to the configuration now, click **Add**. When you are finished, click **Next**.

■   Click **Next**. You can add event exclusion rules to the configuration later by editing the configuration's properties.

See "Adding event exclusion rules to an event exclusion configuration" on page 235.

6   In the Event Exclusion Configuration Summary panel, review the information that you have specified. Then do one of the following:

■   To make changes, click **Back**.

■   To create the event exclusion configuration, click **Finish**.
    The Task/Status list at the bottom of the panel scrolls up to show the event exclusion configuration properties that are being created. A green check mark indicates success.
    When the event exclusion configuration is created, the Cancel button changes to a Close button.

7   Click **Close**.
    The new event exclusion configuration is added to the list of Manager Event Exclusion Configurations in the left pane.

Specifying event exclusion configuration associations

You must specify how an event exclusion configuration is distributed by associating it with individual computers, or computers in configuration groups and organizational units. You can then distribute the configuration immediately or at a later time.

You make these associations by editing the distribution properties of the configuration.

For a more detailed explanation of making configuration associations, see "Editing a configuration's associations" on page 167.

To specify event exclusion configuration associations

1   In the Symantec management console, on the Configurations view tab, in
    the left pane, expand **SESA 2.0** and click **Manager Event Exclusion
    Configurations**.

2   Select the configuration to which you want to make associations.

3   On the Selection menu, click **Properties**.

4   In the Configuration Properties dialog box, do one or more of the following:

    ■   To associate the configuration with a computer, on the Computers tab,
        click **Add**.
        Use the Find Computers dialog box to add computers to which the
        event exclusion configuration is distributed.

    ■   To associate the configuration with a configuration group, on the
        Configuration Group tab, click **Add**.
        Use the Find Configuration Groups dialog box to add configuration
        groups through which the event exclusion configuration is distributed.

    ■   To associate the configuration with an organizational unit, on the
        Organizational Units tab, click **Add**.
        Use the Find Organizational Units dialog box to add organizational
        units through which the event exclusion configuration is distributed.

5   On any of the tabs, you can also do the following:

- ■   To remove an association, select it, and then click **Remove**.

- ■   To edit the properties of a management object with which you have associated the event exclusion configuration, select it, and then click **Properties**.

6   Select one of the following:

- ■   OK: Save your changes and close the Configuration Properties dialog box.

- ■   Apply: Save your changes and leave the dialog box open for further editing.

Adding event exclusion rules to an event exclusion configuration

The rules that you add to an event exclusion configuration determine which events will be excluded from the SESA DataStore.

When you distribute the configuration to a SESA Manager, all the event exclusion rules that you add to the configuration are applied.

To add event exclusion rules to an event exclusion configuration

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** and click **Manager Event Exclusion Configurations**.

2   Select the configuration to which you want to add event exclusion rules.

3   On the Event Exclusion tab, click **Add**.

4   In the Find Event Exclusions dialog box, in the Available event exclusions list, select one or more event exclusion rules.

5   To add the rules to the Selected event exclusions list, click **Add**.

6   Click **OK**.

7   On the Event Exclusions tab, click **Apply**.

Distributing event exclusion configurations

Event exclusion rules do not take effect until you distribute the event exclusion configuration that contains the rules to one or more SESA Managers.

To distribute an event exclusion configuration, you must associate one or more distribution methods with it, as described in "Specifying event exclusion configuration associations" on page 233.

You distribute the event exclusion configurations in the same way that you distribute other software product configurations.

To distribute an event exclusion configuration

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Event Exclusion Configurations**.

2   Select the event exclusion configuration that you want to distribute.

3   On the Selection menu, click **Distribute**.

4   When you are prompted to distribute the configuration, select one of the following.

   ■   Yes: Distribute the configuration.
        A message is sent to the computers that are associated with the configuration, informing them to contact the SESA Manager for the new event exclusion configuration.

   ■   No: Do not distribute the configuration.

Deleting event exclusion configurations

You can delete configurations when you no longer need them. You cannot delete default configurations.

When you delete a configuration, it is removed from any computer, organizational unit, or configuration group with which it has been associated.

Any computer that uses the deleted configuration will continue to do so until you distribute another configuration, or until the poll interval is reached and the computer polls the SESA Manager to see if there are new configurations.

To delete an event exclusion configuration

1   In the Symantec management console, on the Configurations view tab, in the left pane, expand **SESA 2.0** > **Manager Event Exclusion Configurations**.

2   Select the event exclusion configuration that you want to delete.

3   On the Selection menu, click **Delete**.

4   When you are prompted to delete the configuration, select one of the following.

   ■   Yes: Delete the configuration.
        The configuration is removed from the list of configurations.

   ■   No: Do not delete the configuration.

Viewing and creating reports

This chapter includes the following topics:

- About reports
- Viewing reports
- About modifying reports
- Printing and exporting report data
- Monitoring events and alerts in detached windows

About reports

The Events and Alerts view tabs of the Symantec management console display the event data of your security products in easy-to-read reports. These reports are grouped by report type. SESA reports can be used by a wide range of security products.

The security products you install determine which reports events are sent to. Some reports do not display events if the security product they support is not installed.

Reports provide a high level summary of your security posture that you can use for further data analysis. Within a report, you can focus on an individual event's record, and display a full set of details from the SESA DataStore for that event.

You can use the base reports provided with the Symantec management console in two ways to customize your security environment:

■   You can modify a base report for the duration of a console session in order to track particular event behavior.
See "Modifying reports by using filters" on page 246.

■   You can create a customized report from a base report. The base report serves as the starting point for a new report that is focused on the events that you want to monitor.
See "About custom reports" on page 246.

Viewing reports

Reports support data analysis by summarizing a subset of the event log data in your SESA DataStores. On both the Alerts and the Events view tabs, the second level of the navigation tree in the left pane displays the SESA DataStores to which you have access.

To view a report

1   In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can see the report icons.
The following icons indicate the report formats:

📊	Table	See "Working with tabular reports" on page 239.
📊	Bar chart	See "Working with chart-based reports" on page 241.
📈	Trend chart	See "Working with chart-based reports" on page 241.
🥧	Pie chart	See "Working with chart-based reports" on page 241.

2   Click the icon or name of the report you want to view. The report appears in the right pane.

Working with tabular reports

Tabular reports present event data in column format.

Work with tabular reports

After you display a tabular report, you can use the techniques described here to work with the report.

To display a tabular report

1   In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can see the report icons.

2   Click the icon or the name of the report that you want to view.
    The report appears in the right pane.

The status bar in the lower left corner of the window indicates the number of event records that are currently available in the Symantec management console for the selected report.

To improve performance, event records are downloaded in sets. The size of the set is controlled by a setting in the Manager Components Configuration. The default is 5000 events per set.

See "Modifying administrative settings" on page 186.

If set of records that are being downloaded is large, a progress bar is displayed. If the nature of the report means that it may take a long time to download, the progress bar is accompanied by a message to that effect.

3   To display an additional set of events, on the toolbar, click **Next**.

4   To redisplay the first set of event records for the report, click **Refresh**.

To view additional columns and events

1   In the report in the right pane, use the horizontal scroll bar to scroll right and left to view additional columns.

2   Use the vertical scroll bar to scroll up and down to view additional events.

To reorder report columns

◆   In the right pane, hold down the left mouse button and drag the column heading to the right or the left.

To change column width

1   In the report in the right pane, move the mouse pointer over the divider in the column heading until you see a double-headed arrow.

2   Press the left mouse button and drag the border of the column heading to the right or the left.

To change the sort order of the table

1   In the report in the right pane, click the heading of the column on which you want the sort to be performed.
    An inverted arrow appears beside the column label.

2   Click again to reverse the sort order based on the values in the column.
    The sorting algorithms are different for different locales.
    In some locales, such as English, column sorting is case sensitive. Columns that start with an uppercase letter are sorted before columns that start with a lowercase letter.

To view the details of an event or alert

1   In the report in the right pane, click on the event or alert to select it.

2   On the Selection menu, click **Details**.
    A dialog box is displayed, showing the event or alert details.
    See "Displaying event details" on page 284 and "Displaying alert details" on page 295.

To create an alert configuration based on an event (event reports only)

1   In the report in the right pane, select the event.

2   On the Selection menu, click **Alert Wizard**.
    See "Creating an alert configuration based on an event" on page 285.

Working with chart-based reports

Many reports are chart-based rather than tabular, presenting event and alert data graphically. This lets you quickly discern trends or detect security incidents that require your attention.
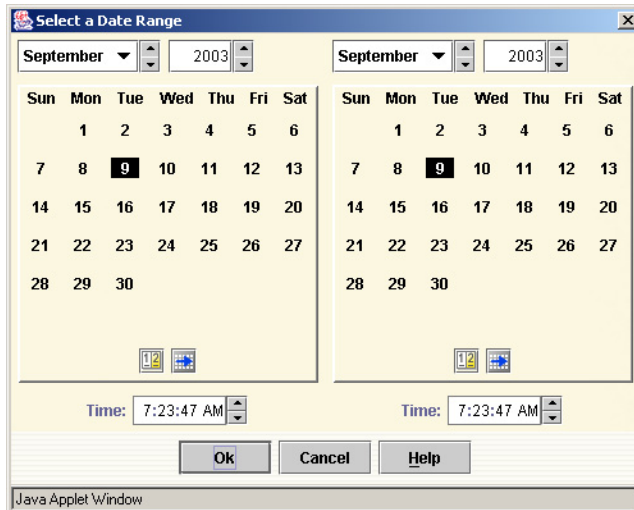
To work with chart-based reports

1   In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can see the report icons.

2   Click the icon or name of the report you want to view.
     The report appears in the right pane.

The chart labels and legend describe the data being displayed.
The status bar at the bottom of the window displays the name of the report.

3 To view a specific set of events that are represented by the chart, do one of the following.

■ In a bar chart report, click the bar that represents the events or alerts. A table below the chart shows the selected events.

The status bar indicates how many events or alerts have been downloaded for the selected section of the chart.

■ In a trend report, place the pointer at the beginning of the date range for which you want to view events. Click and hold the left mouse button and then drag the mouse to the end of the date range. Release the mouse button.
A table below the chart shows the events for the date range that you have selected.

■ In a pie chart report, click the segment of the chart that represents the events or alerts that you want to view.
A table below the chart shows the event data used to create the segment that you selected. The segment is offset from the chart to highlight it.

4 Navigate in the table as described in "Working with tabular reports" on page 239.

5 To view the details of an event or alert, select the specific event or alert and then, on the Selection menu, click **Details**.
See "Displaying event details" on page 284 and "Displaying alert details" on page 295.

6 To create an alert configuration based on an event (event reports only), select the specific event and then, on the Selection menu, click **Alert Wizard**.

See "Creating an alert configuration based on an event" on page 285.

7 To remove the table of events, click the X at the top of the scroll bar to the right of the table.

If you click on another part of the chart, a table of events that represent that part of the chart replaces the table that was previously displayed.

Troubleshooting unavailable SESA DataStores

To view events and alerts, the SESA Manager must be able to connect to the SESA DataStore in which they are stored.

When a SESA DataStore is installed but not available, its icon in the left pane indicates that there is a problem. If you click on the SESA DataStore, a message in the right pane tells you that there is an error connecting.

Figure 6-1 shows that the SESA DataStore named DataStore2 is not available.

Figure 6-1   Unavailable SESA DataStore

A SESA DataStore may be unavailable for any of the reasons in Table 6-1.

| Table 6-1 | Reasons a SESA DataStore may be unavailable |

Reason the SESA DataStore is unavailable	Suggested action
You are trying to use a 1.1 SESA Manager to access a SESA DataStore that is installed on an Oracle 9i database server	SESA 1.1 does not support Oracle 9i. If you are in a mixed SESA 2.0 and SESA 1.1 environment and you are connected to a 1.1 SESA Manager, you cannot view events from an 2.0 SESA DataStore that is installed on Oracle 9i.
	To see whether the SESA DataStore is an Oracle-based SESA DataStore, on the System view tab, click DataStores and, in the right pane, view the description of the DataStore.
	If you need to view events in the Oracle-based SESA DataStore, log off the 1.1 SESA Manager and log on to a 2.0 SESA Manager.
You are trying to access a SESA DataStore on a Windows system from a SESA Manager on a Solaris system.	If you have a mixed Solaris and Windows SESA environment, to be able to view SESA DataStores that are installed on a Microsoft Windows system, you must install the IBM DB2 Runtime Client 7.2 (with FixPack 5) on the Solaris SESA Manager computer before you install the SESA Manager.
The SESA DataStore system has a bad driver	Consider configuring your SESA DataStores for failover, as described in "Configuring SESA Manager to SESA DataStore failover" on page 205
The SESA DataStore system is offline	Consider configuring your SESA DataStores for failover, as described in "Configuring SESA Manager to SESA DataStore failover" on page 205

About modifying reports

You can modify the Global Reports that are provided by SESA and the reports that are provided with your installed security products.

A filter dialog box lets you define conditions that focus the report on what is important to you. By adding multiple conditions, you refine the details that will be included in the report. You can use filters to specify data that will be included in the report, or to specify data that will not be included in the report.

Until you add conditions, all conditions that are part of the original report are used in the report.

You can use the filters you create in two ways:

■ By applying the filter to the report on which it is based.
The applied filter is available during the current console session.

■ By saving the filter.
This saves the filtered report in the Custom Reports folder for reuse at a later time.

About filtered reports

You can apply temporary conditions to a report to filter the report data during a console session.

For example, if you are distributing configurations, you might want to keep a report open in a detached window to track configuration updates.

When you apply a filter, it is visible as an untitled tab at the bottom of the report.

Figure 6-2   Event report with filter

Each time you modify the filter, a new tab appears.

You can apply filters to either a base report or to a custom report. When you log off, the filtered reports are not saved unless you save them deliberately, as described in "To save the filter as a custom report" on page 251.

The following sections describe how to filter reports:

■   "Modifying reports by using filters" on page 246

■   "Filtering shortcuts" on page 257

About custom reports

There are two ways to create a custom report:

■ You can save filtered reports as custom reports when you know that you have a recurring need for the report.
As an example, you might want to regularly look at the highest severity events or alerts that occurred over the past 24 hours.
This method lets you choose a report format such as a bar or pie chart. The report on which the filtered report is based acts as a template.

■ You can create a new custom report using the Custom Report Wizard.
When you use this method, the report you create is always displayed in table format.

Modifying reports by using filters

How you modify reports depends on the security applications installed on your system, the report format you select, and the event or alert details that you want to capture.

When you filter a chart-based report, the results depend on your starting point:

■ If you initiate the filter without displaying events, the resulting report retains the chart format.
It is based on the conditions that created the original report plus the conditions you add.

Note: For meaningful results, this filter should use the AND condition because you add additional conditions to the conditions that originally defined the report.

■ If you initiate the filter after clicking a section of the chart to drill down to the events that it represents, the resulting report is in table format.
It is based on all the events in the SESA DataStore.

You can use the techniques described in this section to customize any event report or alert report.

To modify a report

The following procedures describe a specific scenario to illustrate the basic ways in which you can modify an event report. You can also use these methods to create an alert report.

When you modify a report, you:

■   Display the filter dialog box.

■   Specify conditions for the filter by selecting event columns, operators, and values.
     The method you use to specify values depends on the event column you select. This procedure illustrates the use of the Browse for Object dialog box to select a value.
     Other methods are:

     ■   Specifying dates and date ranges

     ■   Specifying report filter values using Find dialogs

     ■   Specifying report filter values when there are no selection options

■   Determine which conditions are used.

■   Apply the filter to the displayed report.

■   Optionally, save the filter as a custom report.

To display the filter dialog box

1   In the Symantec management console, on the Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can select the report that you want to filter.

2   On the Selection menu, click **Filter**.

3   In the Filter dialog box, on the Filter Conditions tab, you specify conditions that limit the data that is sent to the report.

To specify a condition for the filter

1   Click **Add**.

A row is added to the table.

Use this row to create a condition that is applied to the report data. The event column, operator, and value that you specify determine the event data that is used for the filter.

2   Under Event Column, click in the field to activate a browse button (...).

3 Click the browse button (...).

4 In the Select a column dialog box, scroll to select **Severity** as the event column to use in the filter, and then click **OK**.

5 Under Operator, click the field and use the drop-down list to select **not equal to** as the operator.

The available operators are determined by the event column that you select. When the operator is applied, it specifies how the Event column and value pair that you specify is handled in the filtered report.

The operator that you select determines whether the filter includes or excludes event data, as shown in the following examples:

	Event Column	Operator	Value
To exclude informational events	Severity	not equal to	Informational
To include events with an event type of Application start	Event type	equal to	Application start

6 Under Value, click the field.

- If objects in the SESA DataStore are associated with the Event Column you selected, a browse (...) button is displayed.
  In this example, a browse button is displayed.

- If there are no objects in the SESA DataStore that are related to the selected Event Column, the field remains blank.
  See "Specifying report filter values when there are no selection options" on page 255.

7 Click the browse (...) button.

The Browse for Objects dialog box displays the objects that apply to the Event Column and operator that you selected.

In this case, the Browse for Object dialog box lets you select the severity level to exclude.

8 Select **1 - Informational**.

9 Click **OK**.

The completed condition is:

Event Column	Operator	Value
Severity	not equal to	1-Informational

10 If your filtered report is based on a tabular report, you can use the Columns tab to change which columns are displayed and the column order.

See "Modifying the column display of a tabular report" on page 256.

To determine which conditions are used

1 If you add multiple conditions to a filter, you can determine which are used when the filter is applied.
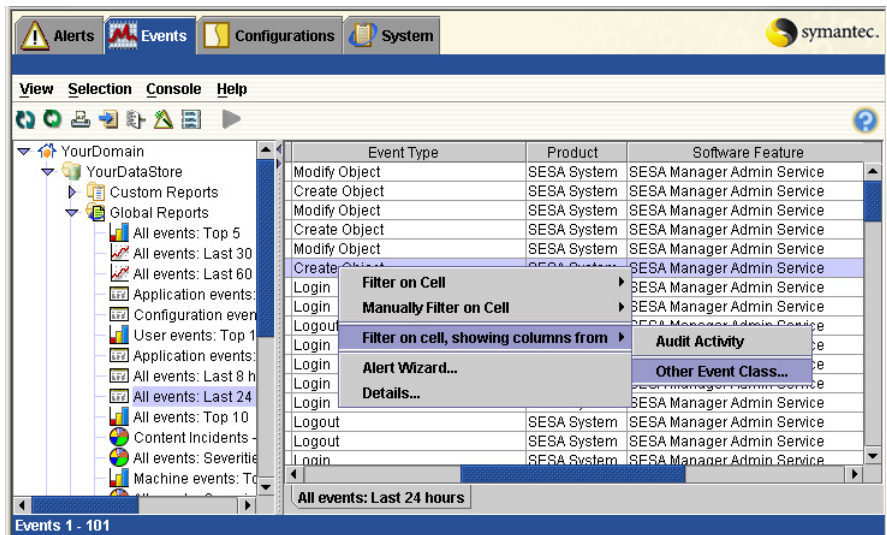
Do one of the following:

- To create a filtered report that only shows events that meet all of the conditions, select **Meet all of the above conditions (AND)**.

- To create a filtered report that shows events that meet any of the conditions, select **Meet any of the above conditions (OR)**.

■ To create a filtered report that only shows events that meet all of the conditions, select **Meet all of the above conditions (AND)**.

To understand the results of this selection, consider the example of an report filter that has a condition that excludes events with an event type of Informational and a second condition that includes events for the product SESA System.

If you select the AND option, the filtered report contains all SESA System events that are not informational. Events for other products and informational events are not displayed.

■ To create a filtered report that shows events that meet any of the conditions, click **Meet any of the above conditions (OR)**.

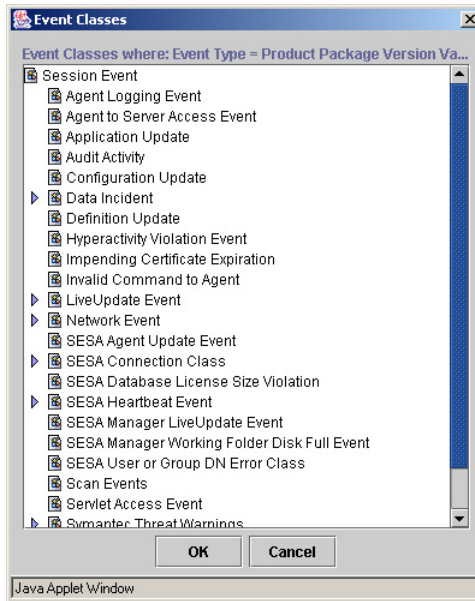Using the same example, if you select the OR option, the filtered report contains all events that are not informational events, regardless of product, and all events that are generated by SESA System.

2 Optionally, do either of the following:

■ To remove a condition that you have specified, select the appropriate row in the table, and then click **Remove**.

■ To remove all conditions, click **Remove All**.

To apply the filter to the displayed report

1 To see the effect of the changes you have made, click **Apply**.

2 View the report in the right pane of the Symantec management console.
As you add filters, tabs at the bottom of the pane let you select which filter to view.

3 Add or change conditions until the report meets your requirements.
As you apply each change, a new tab is generated.

4 If you want to remove a filter, right-click on the tab that represents it and select **Close**.

To save the filter as a custom report

1 In the right pane, right-click on the tab that represents the filter that you want to save, and then select **Save As**.

2 In the Save Filter as Custom Report dialog box, type the custom report name.

3 Click **OK**.
The report is added to the folder of Custom Reports in the left pane, and the name of the filter is displayed on the tab.

Specifying dates and date ranges

When you create a report filter, for some event column selections, the value you select is a date or a date range.

This procedure describes how to specify a date range for an Event Date column.

To specify dates and date ranges

1   In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can select the report that you want to filter.

2   On the Selection menu, click **Filter**.

3   In the Filter dialog box, on the Filter Conditions tab, click **Add**.

4   Under Event Column, click the field and then click the browse (...) button.

5   In the Select a column dialog box, scroll down and select **Event Date**.

6   Click **OK**.

7   Under Operator, click the field and use the drop-down list to select an operator.
    Some operators in the list let you specify a specific date. The between and not between operators let you specify a date range.
    Select **between** as the operator.

8   Under Value, click the field and then click the browse (...) button.

9   In the Select a Date Range dialog box, in the left calendar, set the beginning
    of the date range.
    Do the following:

Month drop-down list	Select a month.
Year	Select a year.
Calendar	Select a day.
Date navigation buttons	The buttons below the calendar help you navigate:
	■ Go to today–If you move to another month in the calendar, click the left button to return to today's date.
	■ Go to current selection–If you select a date, and then move in the calendar, click the right button to return to the selected date.
Time control	Click each section of the time control (hours, minutes, days, seconds) and use the arrows or type a number to increase or decrease the value.

10 To set the end of the date range, in the right calendar, make selections as
    described in step 9.

11 Click **OK**.

12 To see the effect of the filter, click **Apply**.

Specifying report filter values using Find dialogs

When you create a report filter, for some event column selections, you specify
the value using a Find dialog box.

This procedure describes how to limit a report to events from a specific
computer.

To specify a report filter value using a Find dialog

1   In the Symantec management console, on the Alerts or Events view tab, in
    the left pane, expand the folder for a SESA DataStore, and any additional
    folders until you can select the report that you want to filter.

2   On the Selection menu, click **Filter**.

3   In the Filter dialog box, on the Filter Conditions tab, click **Add**.

4   Under Event Column, click the field and then click the browse (...) button.

5   In the Select a column dialog box, scroll down and select **Machine**.

6   Click **OK**.

7   From the Operator drop-down list, select **equal to**.

8   Under Value, click the field and then click the browse (...) button.

9   In the Find Computers dialog box, do one of the following:

■   To proceed without modifying the Available computers list, select a computer, and then continue at step 10.

       The Available computers list shows all computers for the domain, up to the number of computers indicated by the Maximum search count text box.

■   To modify the Available computers list by specifying search criteria, do the following:

Look in	Identifies the domain. You cannot change this value.
Computer name	Type a computer name.
	You can specify a partial computer name that contains one or more asterisks. For example: *dev*
	All computers with names that contain this string are returned.
SESA Managers only	Check to limit the search to SESA Managers.

Maximum search count	Type a number to reduce or increase the number of computers that are returned by the search.
Start search	Click here to start the search.
	The Available computers list is revised based on the search criteria.
Stop search	Click here to stop the search before it is complete.

In the revised Available computers list, select a computer.

10 Click **OK**.

11 To see the effect of the filter, click **Apply**.

Specifying report filter values when there are no selection options

When you create a report filter, for some event column selections, there are no selection options. In this case, you must type the value that is used for the event column.

This procedure describes how to specify a value for the User Name event column.

To specify a report filter value when there are no selection options

1 In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can select the report that you want to filter.

2 On the Selection menu, click **Filter**.

3 In the Filter dialog box, on the Filter Conditions tab, click **Add**.

4 Under Event Column, click the field and then click the browse (...) button.

5 In the Select a column dialog box, scroll down and select **User Name**.

6 Click **OK**.

7 From the Operator drop-down list, select either **equal to** or **matches**.

8 Under Value, click the field to activate the value text box.

9 Type the User Name as follows:

   ■ If you chose equal to as the operator, you must type the value exactly as it is stored in the event report schema.
   You can determine the exact format by looking at a Details report of an event for this user, as described in "Displaying event details" on page 284.

■ If you chose matches as the operator, you can include wildcards to expand the range of possible matches.

Use * for string matching or ? for character matching.

Note that the case of the text must match.

10 Click **OK**.

11 To see the effect of the filter, click **Apply**.

Modifying the column display of a tabular report

Tabular reports give you the greatest flexibility for filtering reports.

You can customize the columns that are displayed and the order in which those columns are displayed, as well as the data that is used to generate the report.

You cannot change the column display for pie chart, bar chart, or trend reports.

To modify the column display

1 In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can select the report that you want to filter.

2 On the Selection menu, click **Filter Report**.

In the Filter dialog box, on the Report Columns tab, the Available Report Columns list shows columns that you can add to the display of the report. The Selected Report Columns list shows the columns that are currently displayed when you view the report.

3   To add columns to the display, under Available Columns, do one of the
    following:
    ■   To add a single column, select it, and then click **Add**.

    ■   To add all of the available columns, click **Add All**.

4   To remove columns from the display, under Selected Columns, do one of the
    following:
    ■   To remove a single column, select it, and then click **Remove**.

    ■   To remove all of the selected columns, click **Remove**.
        This option lets you quickly redesign a report when you want to display
        only a few specific columns. Until you add back at least one column, the
        filter is invalid and you cannot apply it.

5   To reorder columns in the Selected Columns list, select a column name, and
    then click **Move Up** or **Move Down**.

6   To see the effect of the changes you have made, click **Apply** and view the
    report in the Symantec management console.

Filtering shortcuts

Right-click menus for reports provide shortcuts for creating filters. The menu
that is displayed depends on the location of the cursor when you right-click on
reports that are listed in the left pane or events that are listed in the right pane:

■   In the left pane, when you right-click on a report title, a Filter option lets you
    filter a report before you view it.

■   In a report in the left pane:
    ■   When you right click over a column heading, the Filter on Column
        menu is displayed.

    ■   When you right click over a cell in a row, the Filter on Cell menu is
        displayed

These menus give you multiple options for quickly creating filters.

Pre-filtering a report before viewing it

You may want to pre-filter a report even before you view it. For example, you
might want to view only a subset of data from a large report.

To prefilter a report before viewing it

1   In the Symantec management console, on the Alerts or Events view tab, in
    the left pane, expand the folder for a SESA DataStore, and any additional
    folders until you can see the report that you want to filter.

2   Without selecting the report, right-click on it.

3   On the menu that appears, click **Filter**.

4   Create a filter for the report by following the steps in "Modifying reports by
    using filters" on page 246.
    When you complete the filter and apply it, the filtered report is displayed in
    the right pane, with an icon to the right of the report title to indicate that
    this is a filtered view of the report.

5   In the right-pane, at the bottom of the table, you can take action on the
    filtered report by right-clicking on the report title and choosing one of the
    following options:

    ■   To redisplay the Filter dialog box, click **Filter**.

    ■   To remove the filter and display the unfiltered report, click **Remove
        Filter**.

    ■   To save the report as a custom report, click **Save as**.
        In the Save Filter as Custom Report dialog box, enter the custom report
        name and then click **OK**.

Filtering a report based on a column

You can create a report filter quickly based on the contents of a column in the
base report.

To filter a report based on a column

1   In the Symantec management console, on the Alerts or Events view tab, in
    the left pane, expand the folder for a SESA DataStore, and any additional
    folders until you can select the report that you want to filter.

2 In the right pane, right-click on the column that contains the values on which you want to filter.

3 From the submenu, select whether the report will be based on the events in the base report, or on all events in the database.

If the base report was pre-filtered, an icon appears to the right of the title.

The Filter dialog box displays with the event column that you selected as the Event Column for the filter.

By default, the Operator is "equal to".

4 Select a value for the condition.

5 Add additional conditions, if desired.

6   If you add multiple conditions to the filter, determine which will be used
     when the filter is applied.
     Do one of the following:

     ■   To create a filtered report that only shows events that meet all of the
          conditions, select **Meet all of the above conditions (AND)**.

     ■   To create a filtered report that shows events that meet any of the
          conditions, select **Meet any of the above conditions (OR)**.

7   Click **Apply**.

Filtering a report based on a cell

You can create a report based on the contents of a single cell in the base report.

Filter a report based on a cell

You can filter on a cell either automatically or manually, as described in the
following procedure.

■   If you select Filter on Cell, the report is created automatically using events
     that match the contents of that cell.

■   If you select Manually Filter on Cell, the Filter dialog box is displayed.
     You can use it to create additional conditions, or to alter the condition that
     is derived from the cell.

■   If you select Filter on cell, showing columns from, you can select an event
     class on which to base a report.
     This filter is applied to all events in the SESA DataStore rather than just the
     events in the report you are viewing. The resulting report shows all
     columns and all events for the event class that you select, and any
     subclasses that are derived from it.

To automatically filter a report based on a cell

1   In the Symantec management console, on the Alerts or Events view tab, in
     the left pane, expand the folder for a SESA DataStore, and any additional
     folders until you can select the report that you want to filter.

2   In the right pane, right-click on a cell that contains the value on which you
     want to filter.
     For example, you could select a cell with the event type "Security."

3   On the menu that appears, select **Filter on Cell**.

4   From the submenu, select whether the report is based on the events in the
base report, or on all events in the database.

A new filter is added to the report, using the content of the cell as the filter
condition.

To manually filter a report based on a cell

1   On the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can select the report that you want to filter.

2   In the right pane, right-click on a cell that contains the value on which you want to filter.

3   Select **Manually Filter on Cell**.

4   From the submenu, select whether the report is based on the events in the base report, or on all events in the database.
    If the base report was pre-filtered, an icon appears to the right of the title.

The Filter dialog box is displayed with a condition already defined using the event column and cell value of your selection.
By default, the Operator is "equal to."

5   Add additional conditions, if desired.

6   If you add multiple conditions to the filter, determine which are used when the filter is applied.
    Do one of the following:

    ■   To create a filtered report that only shows events that meet all of the conditions, select **Meet all of the above conditions (AND)**.

    ■   To create a filtered report that shows events that meet any of the conditions, select **Meet any of the above conditions (OR)**.

7   Click **Apply**.

To generate a filter based on an event class

1   On the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can select the report that you want to filter.

2   In the right pane, right-click on a cell that contains the value on which you want to filter.

3   Select **Filter on cell, showing columns from**.

4   From the submenu, select one of the following:
   ■   Audit Activity
   ■   Other Event Class

If you select Other Event Class, the Event Class dialog box is displayed.

5   Do the following:

■   Select the event class to be used in the filter.
If an arrow appears to the left of the list, click it to display a list of subclasses from which you can select.

■   Click **OK**.

The report that appears is based on all events in the SESA DataStore that have the value of the cell from which you initiated the report and belong to the event class you selected.

If the event class that you select is not applicable to the cell that you are using to generate the filter, the right pane displays the message "No Events to Display."

Creating a custom report using the Custom Reports Wizard

You can create a custom report by saving a filtered report as described in "Modifying reports by using filters" on page 246.

You can also create a custom report with the Custom Report Wizard, using many of the same processes that you use to modify reports by creating filters.

To create a custom report using the Custom Report Wizard

1   In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore.

2   Select the **Custom Reports** folder.

3   On the Selection menu, click **New**.

4   In the first panel of the Custom Report Wizard, click **Next**.

5   In the General panel, do the following:

■   In the Custom Report name text box, type a name.

■   In the Description text box, type a description.
The description is optional.

6   Click **Next**.

7 In the Filter Conditions panel, to add filter conditions for the report, click **Add**.

Use the procedure in "To specify a condition for the filter" on page 248.

8 If you add more than one filter condition, to determine how the conditions will be applied, do one of the following:

- To create a filtered report that only shows events that meet all of the conditions, select **Meet all of the above conditions (AND)**.

- To create a filtered report that shows events that meet any of the conditions, select **Meet any of the above conditions (OR)**.

9 Click **Next**.

10 In the Report Columns panel, select the columns that are used in the report and the order in which they appear. Do one or more of the following:

- To add a single column, select it, and then click **Add**.

- To add all of the available columns, click **Add All**.

- To remove a single column, select it, and then click **Remove**.

- To remove all of the selected columns, click **Remove**.
  This option lets you quickly redesign a report when you want to display only a few specific columns. Until you add back at least one column, the filter is invalid and you cannot apply it.

- To reorder columns in the Selected Report Columns list box, select a column name, and then click **Move Up** or **Move Down**.

11 Click **Next**.

12 In the Custom Report Summary panel, review the information that you have specified. Then do one of the following.

■ To make changes, click **Back**.

■ To create the user, click **Finish**.

The Task/Status list at the bottom of the panel scrolls up to show the custom report properties that are being created. A green check mark indicates success.

When the custom report is created, the Cancel button changes to a Close button.

13 Click **Close**.

The custom report is added to the Custom Reports folder in the left pane.

Printing and exporting report data

You may need access to report data when you are not working in the Symantec management console. For example, you may want to share the data with other users, or supply it as part of a report.

You can do this by:

■ Printing reports

■ Exporting reports

Printing reports

You can print report data to a printer or a file using the print drivers installed on the computer from which you are running the Symantec management console.

When you print directly from a report, all records that are downloaded to the Symantec management console are printed. The number of records depends on the number of records that is downloaded initially and whether you used the Next button in the toolbar to download additional reports.

See "Working with tabular reports" on page 239.

If you notice that column data wraps when you print a report with many columns, you can create a custom report that eliminates columns that you don't need and print it.

See "Modifying reports by using filters" on page 246.

Note: While printing is an option from a browser window, do not attempt to initiate printing using the browser menu options or buttons of the browser that is hosting the Symantec management console. This will result in a page that is blank or black. Always use the Symantec management console menus and toolbar buttons to initiate printing.

To print a report

1   In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can select the report that you want to print.
    If the report is a chart report, you can print just the graphical display of the chart, or you can select a section of the chart to display and print the table of events.

2   On the Selection menu, click **Print**.
    A secondary browser window is displayed, containing the report.

3 Do one of the following:

- To print to the default printer that is defined on your computer, click the printer button on the toolbar.

- To select a printer to which to print, or to specify printer settings, on the browser window's File menu, click **Print**.
  In the Print dialog box, select a printer and set its properties.
  You can select any print driver configured on your system to create printed output or to print to a file.

4 Click **OK**.

Exporting reports

Using the Export feature to save report data gives you more flexibility than simply printing the report. The Export dialog box provides the following export options:

- Exporting a report to an HTML file

- Exporting to a PDF file

- Exporting to CSV format
  This option is only available if the report is in tabular format, or you have displayed tabular data for a chart-based report.

For PDF and HTML reports, you can also customize the exported report by modifying the table header, and supplying a report title and table footer.

See "To save the filter as a custom report" on page 251.

Note: If the data you want to export uses a double-byte character set (DBCS), you must configure SESA to export data using Unicode encoding.
See "Modifying administrative settings" on page 186.

Exporting a report to an HTML file

Reports exported to HTML format can be incorporated into Web-based presentations or made available by providing the URL of the report.

To export a report to an HTML file

1 In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can select the report that you want to export.

2 On the Selection menu, click **Export**.

3   In the Export dialog box, select **HTML**.

4   To customize the report title and header and provide an optional footer, click
    Customize.
    See "Customizing an exported report" on page 272.

5   Click **OK**.

6   View the report in the browser window that appears on your desktop.

7   Do one of the following:

    ■   To save the HTML file to your computer, on the browser's menu bar,
        select **File > Save As**.

    ■   To view and edit the source HTML code, on the browser's menu bar,
        select **View > Source**.

    ■   To print the HTML file, use the print button on the toolbar or the print
        option on the File menu.

Exporting to a PDF file

Reports exported to PDF format can be sent as attachments that are readable by
anyone with an Acrobat reader.

Note: Exporting to PDF format is not available for double-byte character sets
(DBCS) such as Japanese. If the installed language uses DBCS, the PDF option is
not available. If event data contains DBCS characters, exporting to PDF will fail.

To export a report to a PDF file

1   In the Symantec management console, on the Alerts or Events view tab, in
    the left pane, expand the folder for a SESA DataStore, and any additional
    folders until you can select the report that you want to export.

2   On the Selection menu, click **Export**.

3   In the Export dialog box, select **PDF**.

4   To customize the report title and provide an optional header or footer, click
    Customize.
    See "Customizing an exported report" on page 272.

5   Click **OK**.

6   View the report in the browser window that appears on your desktop.

The location of the PDF version of the report you are viewing is on the SESA Manager. If the Acrobat Reader is not installed on the client, the File Download dialog box is displayed. Specify a location, and then click **Save**.

7   To save a copy of the file to your computer, on the Acrobat toolbar, click **Save**.

Exporting to CSV format

Exporting to CSV format is only available if the report you have selected is a table formatted report, or if you display table data for a section of a chart-based report.

The CSV format converts each row of report data into a set of values separated by commas. You can then import information in this format into a spreadsheet such as Microsoft Excel.

To export a report to CSV format

1   In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can select the report that you want to export.

2   On the Selection menu, click **Export**.

3   In the Export dialog box, select **CSV**.

4   Click **OK**.

An empty browser window and File Download dialog box are displayed.

5   In the File Download dialog box, do one of the following: select **Save this file to disk**.

   ■   To save the report data to a CSV file, click **Save**.
       In the Save As dialog box, navigate to the location to which to save the file, type a file name, and then click **Save**.
       Close the browser window.

   ■   To open the exported file, do one of the following:
       If you do not have a spreadsheet application, click **Open** to open the report in the newly displayed browser window.
       If you have a spreadsheet application associated with.csv files, to open the report in the spreadsheet application, click **Open**. If desired, use the application to save the .csv file, and then close the application.

Customizing an exported report

When you export reports in HTML or PDF format, you can change the report header information of exported reports, and optionally add a title and footer.

Customize an exported report

The customization changes you make can be simple text additions or changes. For HTML reports, you can also add HTML coding to control the formatting of titles.

To customize an exported report

1 In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can select the report that you want to export.

2 On the Selection menu, click **Export**.

3 In the Export dialog box, select the format to which you want to export the report.

4 On the Customize tab, in the Report title text box, type the text that you want to add as a title.

5 In the Header text box, type your revisions to modify the table header.
   The Header text box initially contains the current date and your logon name.
   The header text you supply prints above the report.

6 In the Footer text box, type the text that you want to add as a footer.
   The footer text you supply prints at the end of the report.

7 Click **OK**.

To add formatting to HTML titles

1   To make the title of an HTML report bold, add the HTML tag pair <BOLD></BOLD>.
    Be sure to include the closing HTML tag or the formatting that you specify is applied to the header and footer text as well.

2   To change the color, add the tag pair <FONT COLOR=xxxx></FONT COLOR>, where xxxx is the color code.

3   To format a title that contains a character that is an HTML operator, such as the character ">", use an entity reference for the character.
    Some common entity references are:

HTML character	entity reference
<	<
>	>
&	&
"	"

Monitoring events and alerts in detached windows

One way to monitor particular security situations is to display reports in detached windows so that you can see events and alerts while you continue to do other work in the Symantec management console.

For example, if you are distributing a new configuration and want to see whether the expected updates were taking place, you can open the Configuration Updates report in a detached window.

To monitor events in a detached window

1   In the Symantec management console, on the Alerts or Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can see the report icons.

2   Click the icon or the name of the report you want to view.

3   If desired, add filters to the report.
    See "Modifying reports by using filters" on page 246.

4   On the Selection menu, click **Detach**.

5 In the new Events window (or Alerts window) that appears on your desktop, in the Selection menu, on the Selection menu, click **Auto Refresh**.
The Auto-Refresh button on the toolbar is highlighted and changes color. This button indicates that the event or alert report displayed is regularly updated at a preset auto refresh interval.
To change the auto refresh interval, edit the Administrative tab of the Manager Components Configuration.
See "Editing a configuration's settings" on page 165.

6 To turn off Auto-Refresh, click **Auto-Refresh** on the toolbar.

Viewing and consolidating events

This chapter includes the following topics:

- About the Events view tab
- Viewing event statistics
- Viewing event reports
- Displaying event details
- Creating an alert configuration based on an event

About the Events view tab

Events are displayed as reports on the Events view tab. This tab is visible if you are a member of a role that allows event viewing. Your role membership also determines the products for which you can see events.

Note: Members of the Domain Administrator role can view all events from all SESA DataStores that are in the domain where the Domain Administrator role exists.

Events that are collected from your security products are forwarded to a common SESA DataStore. If multiple SESA DataStores are configured, the left pane of the Events view tab contains a node for each SESA DataStore.

Under each SESA DataStore, a combination of the reports in Table 7-1 are available to display this event data.

Table 7-1   Event reports

Report type	Description
Global reports	Global reports are preconfigured reports provided with the SESA Manager. They typically use data gathered across all integrated security products that are sending events to SESA Managers. You can use these reports as templates to generate reports that are specific to your needs.
	To view global reports, you must have permissions to view event families, as well as global reports.
Event family reports	Groups of associated event reports are presented as event families. Different integrating products may log events that belong to the same event family.
	The System Event folder is an example. It contains reports of system events that are common to all products, such as Application Start and Application Stop. In addition, it contains sub folders for system events that are specific to the products installed.
	Additional folders are available for other families of events. For example, the events logged by products with antivirus components are shown in reports in the AntiVirus Event family, such as Virus Found and Virus Repaired.
	These reports are preconfigured so that you can use them as the basis for reports you create.
Custom reports	Custom reports let you reduce the amount of data being shown, so that you can focus on what is important to you.
	You can create custom reports based on the preconfigured reports in the Global Reports folder and Event family folders.
	You can also create custom reports by running the Custom Reports Wizard. See "Creating a custom report using the Custom Reports Wizard" on page 265.

Viewing event statistics

The SESA DataStores you are connected to are represented as folders in the navigation tree in the left pane of the Events view.

To view the event statistics for a SESA DataStore

◆ In the Symantec management console, on the Events view tab, in the left pane, click the name of the SESA DataStore.
The statistics for the SESA DataStore are displayed in the right pane.

Viewing event reports

The reports on the Events view tab let you view sets of event information that are logically grouped, rather than a continuous log file of the entire SESA DataStore.

See "Viewing reports" on page 238.

For each SESA DataStore to which you have access, the Events view provides the following folders of preconfigured reports:

■ Global Reports

■ System Events

■ Reports for integrated security products

In addition, you can create and view custom reports based on these preconfigured reports.

See "About custom reports" on page 246.

Note: In a properly installed Solaris environment, you can connect to a Solaris SESA Manager and view events from a SESA DataStore that is installed on a Microsoft Windows 2000 system.

To do this, you must install the IBM DB2 Runtime Client 7.2 (with FixPack 5) on the Solaris SESA Manager computer before you install the SESA Manager.

Global Reports

The Global Reports folder contains the preconfigured reports shown in Table 7-2. It may also contain additional reports provided by the products you have installed.

See the documentation for the SESA-enabled security products installed on your SESA Manager.

Table 7-2   Global reports

Global Report	Description
All events: Top 5	A chart of the five most common events in the SESA DataStore
All events: Last 30 days	Occurrences of all events over the last 30 days
All events: Last 60 days	Occurrences of all events over the last 60 days
Application events: Updates only	All application update events logged to the SESA DataStore
Configuration events: Updates only	All configuration update events logged to the SESA DataStore
User events: Top 10	Events charted by the 10 users that have the most events
Application events: All	Based on start, stop, and update events for applications
All events: Last 8 hours	All the events that have been logged over the last 8 hours
All events: Last 24 hours	All the events that have been logged over the last 24 hours
All Events: Top 10	A chart of the 10 most common events in the SESA DataStore
Content incidents: Percentage of All Content Events	Shows the relative quantities of the following types of anti-virus events: ■ Malware Content Violations ■ Generic Content Violations ■ Spam Content Violations ■ Sensitive Content Violations
All events: Severities percentages	Percentage of all events shown by severity
Machines events: Top 10	Events charted by the 10 computers that have the most events

Global Report	Description
All events: Organizational Unit percentages	Percentage of all events shown by organizational unit
All events: Product percentages	Percentage of all events shown by product
All events: Software Feature percentages	Percentage of all events shown by software feature

Note: SESA 1.1 included an All Events report. If you migrate a SESA 1.1 environment to SESA 2.0, the All Events report is listed in Global Reports.

In a SESA 2.0 only installation, All Events is not available as a Global report. However, you can access all events when you create a filter based on a report column or cell.

See "Filtering shortcuts" on page 257.

System Events

The System Events folder contains reports for two kinds of events:

■ Reports that are based on all system events

■ Reports that are based on specific products
  Examples of these subsets of reports are the SESA System reports and the LiveUpdate reports.

The System Events folder may also contain additional reports provided by the products you have installed. See your product documentation.

The reports in Table 7-3 are based on all system events.

Table 7-3   System Event reports - all events

Report name	Description
Definition Updates	Events that are generated when Live Update runs and finds that there are updates available, such as virus definitions of firewall rules.
Correlated Alert Events	All the events that have qualified for an alert.
	If the event count in the alert is high, there may be correlated events that do not actually generate an alert.

Report name	Description
Heartbeat Events	Events that are generated by the Heartbeat Monitor service.
SESA Database License Size Violation	Events that are generated when the SESA Database license size is violated.
SESA Manager Working Folder Disk Full	Events that are generated when the disk space falls below the configured free space minimum size. See "Increasing the minimum free disk space requirement in high logging volume situations" on page 181.
User or Group DN Notification Error	Events that are generated when a user who is configured to receive a notification cannot be reached.
DataStore Tablespace Full by Percent Threshold	Events that are generated when tablespace usage is greater than or equal to a configured threshold.
SIPI Product Package Deployment Successful	Events that are generated when a SIPI package for a SESA-enabled product is successfully deployed.
SIPI Product Package Deployment Failed	Events that are generated when deploying a SIPI package for a SESA-enabled product fails.
SIPI Product Package Uninstallation Successful	Events that are generated when a SIPI package for a SESA-enabled product is successfully removed.
SIPI Product Package Uninstallation Failed	Events that are generated when the removal of a SIPI package for a SESA-enabled product fails.
SIPI Component Package Deployment Successful	Events that are generated when a SIPI package for a SESA component is successfully deployed.
SIPI Component Package Deployment Failed	Events that are generated when deploying a SIPI package for a SESA component fails.
SIPI Component Package Uninstallation Successful	Events that are generated when a SIPI package for a SESA component is successfully removed.
SIPI Component Package Uninstallation Failed	Events that are generated when the removal of a SIPI package for a SESA component fails.
SIPI All Package Audit	Events that are generated when a SIPI package is deployed or removed.
Audit Events	All audit events.

SESA System reports

The reports in Table 7-4 are specific to events logged by the SESA System components.

Table 7-4   SESA System reports

SESA System reports	Description
Hyperactive Client Violations	Events that indicate an unusual amount of activity on a client, which may indicate a denial of service attack
Agent LiveUpdate Sessions	LiveUpdates performed on the SESA Agent
Failed Agent Start-up Events	Failed Startups of SESA Agents
Manager events: Access only	Accesses to the SESA Manager Admin Service
SESA Manager LiveUpdate Sessions	LiveUpdates performed on the SESA Manager
Service Connection Events	Table report of service connection events
All Service Connection Events	Bar chart report of service connection events

LiveUpdate reports

The reports in Table 7-5 are specific to events logged by the LiveUpdate components.

Table 7-5   LiveUpdate reports

SESA System reports	Description
LiveUpdate Events	All LiveUpdate events
LiveUpdate Session Start Events	Events generated when a LiveUpdate session starts
LiveUpdate End Session Events	Events generated when a LiveUpdate session ends
LiveUpdate Server Selection Events	Events that show the servers selected for LiveUpdate
LiveUpdate Product Update Events	Events that occur when a product is successfully updated
LiveUpdate Failure Events	Events generated when LiveUpdate fails
LiveUpdate End Session Failure Events	Events generated when a LiveUpdate session ends in failure

SESA System reports	Description
LiveUpdate Server Selection Failure Events	Events generated when there is a failure to connect to a server for LiveUpdate
LiveUpdate Product Update Failure Events	Events generated when LiveUpdate fails to update a product
LiveUpdate Sessions by Completion Status	Bar chart report based on LiveUpdate session completions
Daily LiveUpdate Sessions Count	Line chart report the daily count of LiveUpdate sessions
Applied Updates by Product Name	Bar chart report of LiveUpdates by product
Updates by Signer	Bar chart report of LiveUpdates by signer
LiveUpdate Server Selection by Result Code	Bar chart report of LiveUpdates by result code
LiveUpdate Events by LiveUpdate Client Type	Bar chart report of LiveUpdates based on client type

Reports for integrated security products

Table 7-6 describes additional report folders that are provided for SESA-integrated security products.

You will only see events in these reports if you install the security product they represent. For details of the reports in these folders, see the documentation for the security products that you have installed.

Table 7-6   Report families for SESA-Integrated products

Report family	Description
Threat Event Family	Reports of events that are related to security threat detection.
	These events are generated by security products that detect and warn about imminent security threats such as virus outbreaks.
Firewall Event Family	Reports of events from firewalls.
	These events are generated by Symantec security gateways and integrated third-party collectors.

Report family	Description
Intrusion Detection Events	Reports of events that are related to Intrusion Detection.
	These events are generated by events from Symantec and third-party intrusion protection technologies including Symantec ManHunt, Symantec Host IDS, Symantec Decoy Server and Symantec Event Collectors for third-party IDS products.
Sensitive Content Filtering Event Family	Reports of events that are related to data that is sensitive in nature (for example unauthorized access to certain Web sites that is against company policy).
	These events are generated by content filtering products: for example, Symantec security gateway products.
Content Filtering Event Family	Reports of events that are related to the content of the data (generic or spam).
	These events are generated by content filtering products: for example, Symantec security gateway products.
Host Intrusion Detection Events	Reports of events that are related to Host Intrusion Detection.
	These events are generated by host intrusion detection products, including Symantec Host IDS products.
Anti Virus Event Family	Reports of all events that are related to virus detection.
	These events are generated by Symantec and third-party antivirus products, including Symantec AntiVirus Corporate Edition, Symantec AntiVirus/Filtering for Microsoft Exchange, Symantec AntiVirus for Handhelds.
Vulnerability Event Family	Reports of events that are related to detecting vulnerabilities.
	These events are generated by vulnerability detection products: for example, Symantec Vulnerability Assessment.
Network Intrusion Detection Events	Reports of events that are related to Network Intrusion Detection
	These events are generated by network intrusion detection products: for example, Symantec ManHunt.

Displaying event details

You may want to know more about an event than what is shown in the event report. In that case, you can view all the details about the event that are contained in the SESA DataStore.

To view the details of an event

1 In the Symantec management console, on the Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can see the report icons.

2 Click the icon or name of the report you want to view.

3 In the right pane, if the report is a chart, click the chart to display the subset of events you are interested in.

4 Select the event for which you want to view details.

5 On the Selection menu, click **Details**.

The Event Details dialog box shows the information in the SESA DataStore for this event.

It provides the following buttons:

	Previous	Displays the previous event in the table.
	Next	Displays the next event in the table.
	Refresh	Refreshes the screen.
	Alert Wizard	Displays the Create a new Alert Configuration Wizard. See "Creating an alert configuration based on an event" on page 285.
	Print	Prints a screen shot of the Event details dialog box.
	Help	Provides Help on the Event Detail dialog box.

6   To redisplay the Event Details window if it becomes covered by other windows, cycle through open windows by holding down the ALT key on the keyboard and repeatedly pressing TAB.

7   To close the Event Details dialog box, click **Close**.

Creating an alert configuration based on an event

Alerts provide administrators with notification about events or groups of events that require their immediate attention. You can create an alert based on a specific event that is of concern in your security environment.

Since most of the required alert information–the details of the event that will trigger the alert–is taken from the event you select, you can create an alert from an event very quickly. The only additional information you must supply is a name for the alert configuration.

You can specify the notification information for the alert when you create it or later, by editing the alert configuration. When you edit the completed alert configuration, you can also specify thresholds to control the frequency of the alert.

To create an alert configuration

To enable users who oversee your security configurations to receive alerts about problems on your systems, you do the following:

- Create an alert configuration, including notification instructions.

- Distribute the alert configuration to the computers in your security environment.

To create an alert configuration based on an event

1   In the Symantec management console, on the Events view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can see the report icons.

2   Click the icon or name of the report you want to view.

3   In the right pane, if the report is a chart, click the chart to display the subset of events that you are interested in.

4   Select the event on which you want to base the alert configuration.

5   On the Selection menu, click **Alert Wizard**.
    The first panel of the Create a new Alert Configuration Wizard shows the event details that are automatically recorded for the alert:

    - Event class
    - Event type
    - Product
    - Software feature
    - Category
    - Severity
    - Domain
    - DataStore

6 Click **Next**.

Create a new Alert Configuration Wizard

General

Type the **Alert Configuration name**, select the **Alert severity**, and provide an **Alert description**.

Alert Configuration name ✱

Alert description

Alert severity

1 - Informational

✱ Required

<< Back   Next >>   Cancel

Java Applet Window

7 In the General panel, in the Alert Configuration name text box, type a name for the alert configuration.
Be consistent in the use of case when naming alerts. In some languages, when you sort alerts in reports, alerts whose names begin with uppercase letters are sorted before alerts whose names begin with lowercase letters.

8 In the Alert description text box, type a description of the alert.
This description is optional. If it is provided, it is included in the alert notification.

9 In the Alert Severity drop-down list, select the alert severity.
This is the severity level at which the alert is logged. For the person viewing alerts, or the person receiving an alert notification, this value indicates how urgent the need for a response is.

10 Click **Next**.

11 In the Thresholds and Frequencies panel, do one of the following:

■   Specify an alert threshold and alert frequency now, and then click **Next**.

■   Accept the default to create an alert for every occurrence of the event by clicking **Next**.
    You can specify an alert threshold and frequency later by editing the alert configuration.

    See "Specifying alert thresholds and frequency" on page 307.

12 In the Users to Notify panel, do one of the following:

■   To add users to be notified now, click **Add**. When you are finished, click **Next**.

■   Click **Next**.
    You can add users to be notified in case of an alert later by editing the alert configuration.

    See "Adding users to an alert configuration" on page 309.

Warning: If you do not specify an email server before you add users to an alert configuration, you will receive errors.

See "Configuring alert email and retry settings" on page 184.

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13 In the Additional Notifications panel, do one of the following:

■   Enable SNMP traps and/or local logging as notification methods now, and then click **Next**.

■   Click **Next**.
    You can enable SNMP traps and/or alert logging later by editing the alert configuration.

    See "Using SNMP traps and logging for alert notification" on page 312.

14 In the Alert Configuration Summary panel, review the information that you have specified. Then do one of the following:

■   To make changes, click **Back**.

■   To create the alert, click **Finish**.
    The Task/Status list at the bottom of the panel scrolls up to show the alert properties that are being created. A green check mark indicates success.
    When the alert is created, the Cancel button changes to a Close button.

15 Click **Close**.
    The new alert is added to the list of alerts in the Alert Configurations dialog box, which you can access from the Alerts view tab.

To distribute an alert configuration

1   After you create the alert configuration, distribute the change by using the method you have set up for configuration distribution.
    See one of the following:

    ■   "Distributing configurations by way of an organizational unit" on page 105

    ■   "Distributing a configuration to selected computers in an organizational unit" on page 131

    ■   "Distributing a configuration by way of a configuration group" on page 144

    To distribute alert configurations, you must be a member of a role that gives you access to the Systems tab.

2   If you do not want to manually distribute the configuration, the new configuration will be picked up when the SESA Agent polls the SESA Manager for changes.
    You can set the polling interval on the Configuration tab of the SESA Agent Configuration.
    See "Setting the configuration poll time" on page 216.
    To set the polling interval, you must be a member of a role that gives you access to the Configurations tab.

Viewing and configuring alerts

This chapter includes the following topics:

- About the Alerts view tab
- Viewing alert statistics
- Viewing alert reports
- Acknowledging alerts
- Displaying alert details
- Creating an alert configuration
- Editing alert configurations

About the Alerts view tab

Alerts are high priority events on which users can be notified.

To generate alerts, you create alert configurations that are based on events in the SESA DataStores.

As part of the alert configuration, you can specify notifications, which are messages that are sent to specified users or logs when alert conditions are met. Examples of notifications are the delivery of email messages, paging messages, or SNMP Traps.

Alerts are displayed as reports on the Alerts view tab. This tab is visible if you are a member of roles that allow alert viewing. Your role memberships also determine the products for which you can see alerts.

To view alerts, you display the tabular or graphical reports that are provided.
You can use the provided report formats to create custom reports, sort the alert
data, and filter alerts.

You can view the details of alerts to see the events that trigger the alert and
whether the designated people on your security team have responded to them.

Note: If your role membership lets you view alerts, you can view all alerts
regardless of the source events that generated them. However, you may not
have the rights to see the events that generated the alert.

For example, if you can view alerts, but are not a member of the role that allows
event viewing for Symantec Host IDS, you can view alerts that are generated by
events from Symantec Host IDS but you cannot view the Host IDS events that
generated the alerts.

Viewing alert statistics

The SESA DataStores you are connected to are represented as folders in the
navigation tree in the left pane of the Alerts view.

To view the alert statistics for a SESA DataStore

◆ In the Symantec management console, in the left pane, click the name of the
SESA DataStore.
The DataStore statistics are displayed in the right pane.

Viewing alert reports

The reports in Alerts view let you view sets of alert information that are
logically grouped, rather than a continuous log file of the entire SESA
DataStore.

See "Viewing reports" on page 238.

Table 8-1 lists the preconfigured alert reports. In addition, you can view custom alert reports you create.

Table 8-1   Base alert reports

Report name	Description
All alerts: Top 5 by alert acknowledger	Shows alerts acknowledged by the top five alert acknowledgers (based on all alerts)
All alerts: Top 5 by event count	Show the five alerts with the highest event counts (based on all alerts)
All alerts: States percentages	The percentage of response successes and retries
All alerts: Software Features percentages	The percentage of alerts for each software feature
All alerts: Products percentages	The percentage of alerts for each security product installed
All alerts: Totals by event	Alerts displayed by event type
All alerts: Names percentages	The percentage of alerts for each alert configuration
All alerts: Severities percentages	The percentage of alerts for each event severity
All alerts: Last 60 Days	All alerts that have occurred over the last 60 days
All alerts: Last 30 Days	All alerts that have occurred over the last 30 days
Acknowledged Alerts	All alerts that have been acknowledged
All alerts: Top 5	The five alerts that have occurred the most frequently
All alerts	All alerts
All alerts: Not acknowledged (active)	All alerts that have not been acknowledged

Acknowledging alerts

Acknowledging an alert indicates that the administrator is aware of, and is acting on the alert. Use the Acknowledged Alerts report to see all acknowledged alerts.

Unacknowledged alerts may require the attention of an administrator. You can view them in the All alerts: Not acknowledged (active) report.

Two menu options and toolbar buttons are added in Alerts view when you are viewing a report. They let you mark alerts as acknowledged or unacknowledged:

Acknowledge

Unacknowledge

Marking an alert as acknowledged or unacknowledged

Acknowledging an alert is not a final action. If additional issues arise, an acknowledged alert can be unacknowledged.

Acknowledging an already acknowledged alert, updates the Acknowledged and Acknowledged By fields to the current time and user.

To acknowledge an alert

1   In the Symantec management console, on the Alerts view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can see the report icons.

2   Click the icon or name of the report you want to view.

3   In the right pane, view the report.

4   If the report is a chart, click the chart to display the subset of alerts you are interested in.

5   Select the alert you want to acknowledge. You can select more than one alert at a time by using the SHIFT or CTRL keys on the keyboard.

6   On the Selection menu, click **Acknowledge**.
    The alert is moved to the Acknowledged Alerts report.
    If needed, scroll horizontally to view the Acknowledged and Acknowledged By columns.
    The Acknowledged column shows the time the alert was acknowledged.
    The Acknowledged By column shows the logon name of the user logged on to the Symantec management console.

To unacknowledge an alert

1   On the Alerts view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can see the report icons.

2   Click the icon or name of the report you want to view.

3   In the right pane, view the report.

4   If the report is a chart, click the appropriate part of the chart to display the alerts you are interested in.

5   Scroll through the alert records and select the alert you want to unacknowledge.

6   On the Selection menu, click **Unacknowledge**.
    The alert is removed from the Acknowledged Alerts report and placed in the Not Acknowledged (active) report.

Displaying alert details

You may want to know more about an alert than what is shown in the alert report. In that case, you can view all the details about the alert that are contained in the SESA DataStore.

View the details of an alert

After you display the details of an alert, you can:

■   View the events on which the alert is based

■   View the notifications sent for the alert

To display the alert details

1   In the Symantec management console, on the Alerts view tab, in the left pane, expand the folder for a SESA DataStore, and any additional folders until you can see the report icons.

2   Click the icon or name of the report you want to view.

3   In the right pane, view the report.

4   If the report is a chart, click the chart to display the subset of alerts you are interested in.

5   Select the alert that you want to view.

6   On the Selection menu, click **Details**.

The Alert Details dialog box shows the information in the SESA DataStore for this alert.

Use the following button to view the alert details:

↑	Previous	Displays the previous alert in the table.
↓	Next	Displays the next alert in the table.
↻	Refresh	Refreshes the screen.
▤	Details	Displays the event details of a selected event on the Event Information tab. See "Displaying event details" on page 284.
🖨	Print	Prints a screen shot of the Alert details dialog box.
❓	Help	Provides Help on the Alert Details dialog box.

7   If desired, resize the dialog box by moving the mouse pointer over the dialog
     box border until you see a double-headed arrow, and then dragging the
     border.

8   To redisplay the Alert Details window if it becomes covered by other
     windows, cycle through open windows by pressing **ALT** key and repeatedly
     pressing **TAB**.

9   To close the Alert Details dialog box, click **Close**.

To view the events on which the alert is based

1   In the Alert Details dialog box, on the Event Information tab, select an
     event.

2   On the toolbar, click **Details**.
     The Event Details dialog box is displayed.
     See "Displaying event details" on page 284.

3   Click **Close**.

To view the notifications sent for an alert

1   In the Alert Details dialog box, on the Responses tab, view the notifications that have been sent for the alert.

2   Use the horizontal scroll bar to view additional columns.

3   To close the Alert Details dialog box, click **Close**.

Creating an alert configuration

You can configure alerts from existing events or event classes by displaying the events in a report in Events view. This is the easiest way to configure an alert and is recommended when you are first configuring alerts.

See "Creating an alert configuration based on an event" on page 285.

You can also configure alerts by running the Alert Configuration Wizard from the Alert Configuration dialog box, which is available from the Alerts view tab.

To create an alert configuration

To enable users who oversee your security configurations to receive alerts about problems on your systems, do the following:

■   Create an alert configuration, including notification instructions.

■   Distribute the alert configuration to the computers in your security environment.

To create an alert configuration

1   In the Symantec management console, on the Alerts view tab, on the Selection menu, click **Alert Configurations**.

2   On the toolbar at the top of the Alert Configurations panel, click **New** (+).

3 In the first panel of the Create a New Alert Configuration Wizard, click **Next**.

4 In the General panel, do the following:

Alert Configuration name	Type a name for the alert configuration.
	Be consistent in the use of case when naming alerts. In some languages, when you sort alerts in reports, alerts whose names begin with uppercase letters are sorted before alerts whose names begin with lowercase letters.
Alert description	Optionally, type a description of the alert.
	This description is included in the alert notification.
Alert severity	Select the alert severity.
	This is the severity level at which the alert is logged. It is used only for notifications and in alert reports. For the person viewing alerts, or the person receiving an alert notification, this value indicates how urgent the need for a response is.
Domain	Click the browse (…) button.
	In the Find Domain dialog box, select the domain, and then click **OK**.

DataStores   Select one or more SESA DataStores.

If only one SESA DataStore is available, it is already specified and cannot be changed.

Your selections are used by the alert correlation service computer to determine which alerts it can actually process.

5   Click **Next**.

6   In the Event Information panel, specify one or more event filters to restrict the events on which the alert is based.

If you do not make selections now, the defaults are used. Using all defaults means that all events are used to generate the alert. The more selections you make, the more finely tuned the alert is.

Warning: You cannot change the choices that you make in the Event Information panel and the Event Filter (Advanced) dialog box by editing the alert.

Use the following descriptions as you make selections from the drop-down lists in the Event Information panel:

Event class	Select one of the following:
	■ Any: All event types are available in the Event type drop-down list.
	■ Selection: Only the event types that belong to the selected event class are available in the drop-down list.
Event type	Select one of the following:
	■ Any: Events of all event types for the selected event class can trigger the alert.
	■ Selection: Only events of the selected event type trigger an alert.
Product	Select one of the following:
	■ Any: The alert is triggered by events from all software features of all SESA-enable products.
	■ Selection: You can use the Software feature drop-down list to specify a software feature for this product: events from the selected software feature trigger the alert.
Software feature	Select one of the following:
	■ Any: Events from all software features for the selected product can trigger the alert.
	■ Selection: Only events from the selected software feature trigger the alert.
Category	Select one of the following:
	■ Any: Events of any category trigger the alert.
	■ Selection: Only events belonging to the selected category trigger the alert.
Severity	Select one of the following:
	■ Any: Events of all severities trigger the alert.
	■ Selection: Only events with the selected severity trigger the alert.

7 To further restrict the events on which the alert is based, click **Advanced**.

8 In the Event Filter (Advanced) dialog box, in the Available Common Event Columns drop-down list, select an event column.
These columns are common to all events, regardless of event class.

9 In the Value text box under Available Common Event Columns, specify a value for the common event column.
Do one of the following:

■ If the column you select has a defined set of values in the SESA Directory, a browse control (...) appears to the right of the Value text box. Click this control to display a dialog box from which you can select a value.
For example, if you select Machine as the common event column, clicking the control displays a list of the computers defined in the SESA Directory for your security network.

■ If a control does not appear, type the value, using alphanumeric format. For your entry to be meaningful, you must type the value exactly as it is stored in the alert report schema. For example, the case you use must match the case as it is used in the SESA Directory.

Use SESA reports to determine the exact format in one of the following ways:

Details report	Look at a Details report of an event that contains the column.
	See "Displaying event details" on page 284.
Event report	Display a report that contains the column. Select a row and copy the value for the column. Paste it into the Value text box.

10 In the Available Event Class Columns drop-down list, select an event class column.

Depending on the restrictions you have already selected, the Available Event Class Columns drop-down list is unavailable for some alert configurations.

11 If you selected an event class column, in the Value text box under Available Event Class Columns, type a value.

If the column you select has a defined set of values in the SESA DataStore, a control is available to help you select a value.

12 In the Thresholds and Frequencies panel, do one of the following:

■ Specify an alert threshold and alert frequency now, and then click **Next**.

■ Accept the default to create an alert for every occurrence of the event by clicking **Next**.

You can specify an alert threshold and frequency later by editing the alert configuration.

See "Specifying alert thresholds and frequency" on page 307.

13 In the Users to Notify panel, do one of the following:

■ To add users to be notified now, click **Add**, and, when you are finished, click **Next**.

■ Click **Next**.

You can add **Users** to be notified in case of an alert later by editing the alert configuration.

See "Adding users to an alert configuration" on page 309.

Warning: If you do not specify an email server before you add users to an alert configuration, you will receive errors.
See "Configuring alert email and retry settings" on page 184.

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14 In the Additional Notifications panel, do one of the following:

■ Enable SNMP traps and/or local logging as notification methods now, and then click **Next**.

■ Click **Next**.
You can enable SNMP traps and/or alert logging later by editing the alert configuration.

See "Using SNMP traps and logging for alert notification" on page 312.

15 In the Alert Configuration Summary panel, review the information that you have specified. Then do one of the following:

■ To make changes, click **Back**.

■ To create the alert, click **Finish**.
The Task/Status list at the bottom of the panel scrolls up to show the alert properties that are being created. A green check mark indicates success.
When the alert is created, the Cancel button changes to a Close button.

16 Click **Close**.
The new alert is added to the list of alerts in the Alert Configurations dialog box.

17 To close the Alert Configurations dialog box, click **Close** again.

To distribute an alert configuration

1 After you create the alert configuration, distribute the change by using the method you have set up for configuration distribution.
Do one of the following:

■ See "Distributing configurations by way of an organizational unit" on page 105.

■ See "Distributing a configuration to selected computers in an organizational unit" on page 131.

■ See "Distributing a configuration by way of a configuration group" on page 144.

To distribute alert configurations, you must be a member of a role that gives you access to the Systems tab.

2   If you do not want to manually distribute the configuration, the new
     configuration is picked up when the SESA Agent polls the SESA Manager for
     changes.

     You can set the polling interval on the Configuration tab of the Agent
     Configurations.

     See "Setting the configuration poll time" on page 216.

     To set the polling interval, you must be a member of a role that gives you
     access to the Configurations tab.

Editing alert configurations

You can edit alert configurations to make them more specific or as
circumstances change. You have the following editing options:

■   Disabling or enabling alerts

■   Specifying alert thresholds and frequency

■   Adding users to an alert configuration

■   Specifying alert notification methods

Disabling or enabling alerts

When you create an alert it becomes active the next time configurations are
updated, as a result of distribution or automatic polling for configurations.

You may want some alerts to only be active in certain circumstances; for
example, when event monitoring makes you suspect that a server is under
attack.

To disable or enable an alert

You can disable an active alert, or enable an inactive alert.

To disable an active alert

1   In the Symantec management console, on the Alerts view tab, on the
     Selection menu, click **Alert Configurations**.

2   In the Alert Configurations dialog box, in the list of alerts in the left pane,
     select the alert configuration you want to disable.

3   In the right pane, on the General tab, check **Disable this alert
     configuration**.

4   Do one of the following:

■   To apply the change you made to this configuration, click **Apply**.

■   To save all unsaved changes to this and other configurations, on the toolbar, click **Save All**.

5   To close the Alert Configurations dialog box, click **Close**.

To enable a disabled alert

1   On the Alerts view tab, on the Selection menu, click **Alert Configurations**.

2   In the **Alert Configurations** dialog box, in the list of alerts in the left pane, select the alert configuration you want to enable.

3   Uncheck **Disable this alert configuration**.

4   Do one of the following:

■   To apply the change you made to this configuration, click **Apply**.

■   To save all unsaved changes to this and other configurations, on the toolbar, click **Save All**.

5   To close the Alert Configurations dialog box, click **Close**.

Specifying alert thresholds and frequency

You can configure alerts to reduce the amount of event data you have to monitor.

To limit alert notifications

You can specify:

■   The threshold of events that occur over a specified time frame that will trigger the alert.

■   An alert frequency that will cause alerts to be sent at specified intervals.

To specify alert thresholds

1   In the Symantec management console, on the Alerts view tab, on the Selection menu, click **Alert Configurations**.

2   In the Alert Configurations dialog box, in the list of alerts in the left pane, select the alert configuration you want to edit.

3 In the right pane, on the Thresholds tab, click **Create an Alert after a given number of events in a given time period**.

4 Specify the alert threshold by doing the following:

Number of Events	Type the number of events that must occur before the alert is generated.
Time period	In the text box, type an integer.
	In the drop-down list box, select a time delimiter.
	The combination of the integer and time delimiter specify the time period during which the events that generate the alert must take place.

If you specify 10 as the number of events and one hour as the time period, then 10 events of the type specified in the alert configuration must be logged in one hour for the alert to be triggered.

5 Do one of the following:

- To apply the change you made to this configuration, click **Apply**.
- To save all unsaved changes to this and other configurations, on the toolbar, click **Save All**.

6 To close the Alert Configurations dialog box, click **Close**.

To specify the alert frequency

1   On the Alerts view tab, on the Selection menu, click **Alert Configurations**.

2   In the Alert Configurations dialog box, in the list of alerts in the left pane, select the alert configuration you want to edit.

3   In the right pane, on the Thresholds tab, click **Limit the Alert frequency**.

4   In the Alert generated every text box, type an integer.

5   In the drop-down list box, select a time delimiter.
    The combination of the integer and time delimiter specify the maximum frequency with which the alert is generated.

6   Do one of the following:

    ■   To apply the change you made to this configuration, click **Apply**.

    ■   To save all unsaved changes to this and other configurations, on the toolbar, click **Save All**.

7   To close the Alert Configurations dialog box, click **Close**.

Specifying alert notification methods

There are two alert notification methods:

■   You can add users who have specified notification methods and times and to the alert configuration.
    See "Adding users to an alert configuration" on page 309.

■   You can enable SNMP traps or local logging.
    See "Using SNMP traps and logging for alert notification" on page 312.

Adding users to an alert configuration

When you create or edit users, you can choose the methods–email or pager–by which they are notified in case of an alert. You can also specify the time period during which a particular contact method should be used.

See "Specifying notification information" on page 94.

You can add users for whom this notification information has been specified to an alert configuration so that they are contacted when the alert is generated.

Warning: If you do not specify an email server before you add users to an alert configuration, you will receive errors.
See "Configuring alert email and retry settings" on page 184.

To add a user to an alert configuration

1   In the Symantec management console, on the Alerts view tab, on the Selection menu, click **Alert Configurations**.

2   In the Alert Configurations dialog box, in the list of alerts in the left pane, select the alert configuration you want to edit.

3   In the right pane, on the Users to Notify tab, click **Add**.

4   In the Find Users dialog box, the Available Users list shows the users for the current domain, up to the number of users indicated by the Maximum Search Count text box.

5   If you want to select users in a different domain, display the Look in drop-down list and select the domain.
    You must also add this domain to the Domain Access tab of your SESA Managers.
    See "Adding domain access to a SESA Manager" on page 128.

6   Do one of the following:

    ■   Select a user from the Available Users list, and then continue at step 10.

    ■   Modify the search by specifying search criteria, and then continue at step 7.

7   To specify search criteria:

Look in	In the drop-down list, select a different domain in which to search for users.
Logon name Last name First name	Type all or part of a logon name, last name, and/or first name. If you specify a partial name that contains one or more asterisks, all users with names that contain this string is returned.
	For example, if you type *dev* in the Logon name text box, when you search only users whose logon names contain this string is returned.
Maximum search count	Edit this text box to reduce or increase the number of users returned by the search.

8   Click **Start Search**.

9   If desired, click **Stop Search**.
The search is terminated before the search is finished.

10   In the Available Users list, select one or more users.

11   Click **Add**.
The users are added to the Selected Users list.

12   Click **OK**.

13   On the Users tab, select one of the users you added, and then click **Properties**.

14   In the User Properties dialog box, on the Notifications tab, check the coverage for notifications for this user. If necessary, edit the notifications tab.
See "Specifying notification information" on page 94.

15   Repeat steps 12 through 13 for each user to verify that you have added enough users to have full coverage for notifications.

16   Do one of the following:
- ■ To apply the change you made to this configuration, click **Apply**.
- ■ To save all unsaved changes to this and other configurations, on the toolbar, click **Save All**.

17   To close the Alert Configurations dialog box, click **Close**.

Using SNMP traps and logging for alert notification

When you create alert configurations, you can enable the forwarding of alert notifications to the following:

■   SNMP traps
    The SNMP alert response is sent to the SNMP host that is defined in the Manager Components Configurations. Symantec provides Management Information Base (MIB) files so that you can view the SNMP traps in your preferred SNMP console.
    See "Configuring SNMP alert responses" on page 193.

■   Local event logs
    When event logging is enabled, alert notifications are forwarded to the Microsoft NT event log on the SESA Manager.

These methods of notification are useful if you have tools that automate checking SNMP messages and local logs for specific events.

To enable SNMP traps and local logging

1   In the Symantec management console, on the Alerts view tab, on the Selection menu, click **Alert Configurations**.

2   In the Alert Configurations dialog box, in the list of alerts in the left pane, select the alert configuration you want to edit.

3 To enable SNMP messages, in the right pane, in the Additional Notifications tab, under SNMP Trap Message, click **Click here to enable SNMP Trap message responses for this alert**.

4 To enable local logging, under Logs, click **Click here to enable logging of the alert to the local logging facility**.

5 Do one of the following:

■ To apply the change you made to this configuration, click **Apply**.

■ To save all unsaved changes to this and other configurations, on the toolbar, click **Save All**.

6 To close the Alert Configurations dialog box, click **Close**.

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Acknowledgements